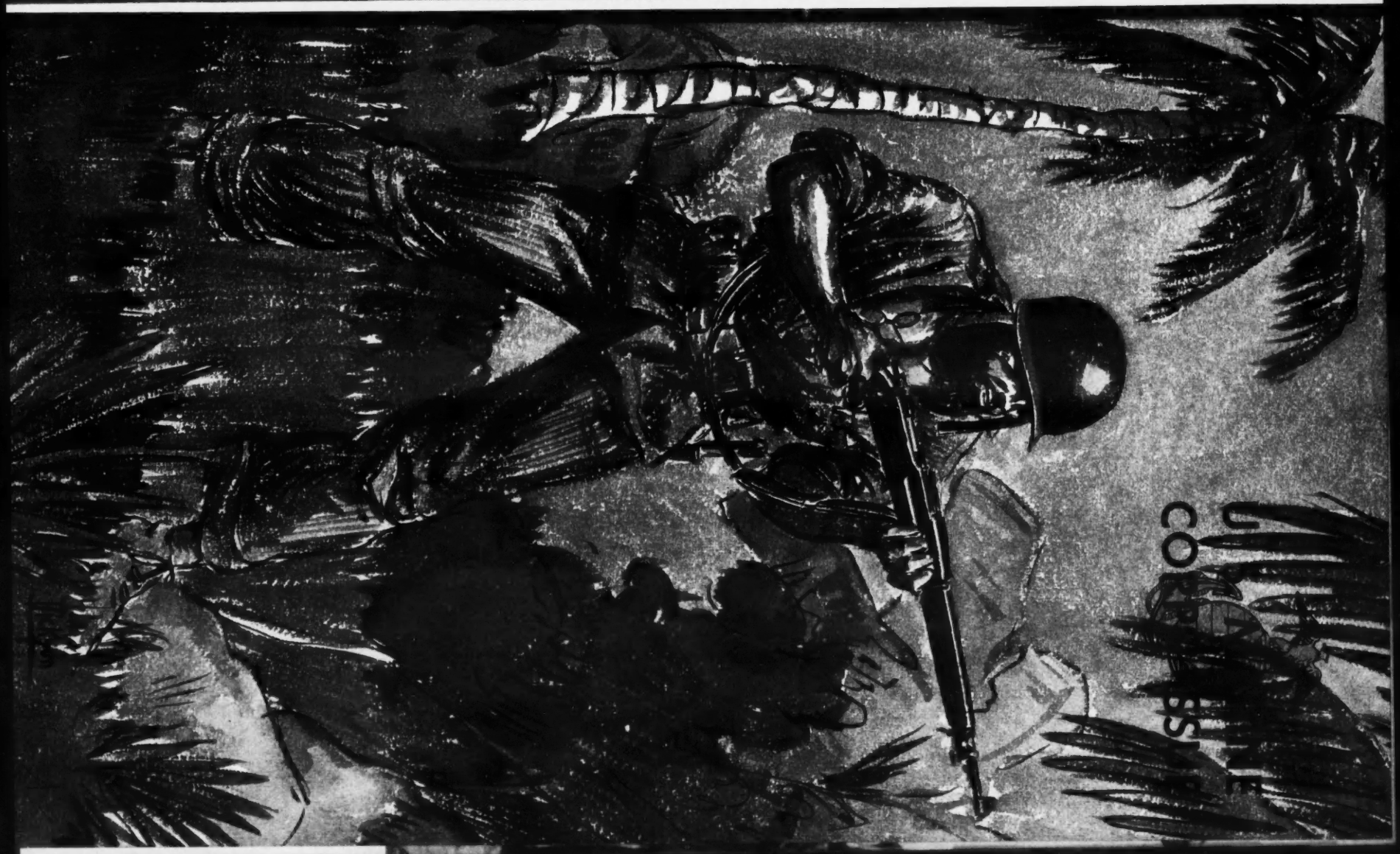
THE AMERICAN RIFLEMAN

MARCH 1943



Peter Peepsight Buttons a Lip

WHATCHA GOT THERE, FRED?
A CURE FOR "WINDY" WILLIE AND "BLABBERMOUTH" BUTTPLATE. COME ON ALONG.
LET'S HAVE A LOOK AT THAT. I'VE BEEN TRYING FOR YEARS TO CUT DOWN THEIR FLOW OF GAB.
MUDDY BOTTOM RIFLE and PISTOL CLUB
WAIT'LL YOU SEE IT WORK.
AND HAVE YOU HEARD THE BALLISTICS OF THE ARMY'S NEW...
YEAH, BUT I HAVE SOME CONFIDENTIAL INFO ABOUT A SPECIAL DIVISION ARMED WITH...
HEY, YOU TWO! LOOK AT THIS!
GASP!
GASP!
POSTER THROUGH THE COURTESY OF BRITISH-AMERICAN AMBULANCE CORPS, INC.
BUTTON YOUR LIP!
LOOSE TALK CAN COST LIVES
SOME FOLKS KNOW A LOT OF INSIDE DOPE THAT SHOULD NOT GET AROUND. IF YOU WANT TO TALK WAR PLANS, TELL YOUR FRIENDS ABOUT THE ALL-OUT JOB THE SMALL ARMS AND AMMUNITION INDUSTRY IS DOING SUPPLYING UNCLE SAM'S ARMED FORCES. THE V THEY'RE SHOOTING FOR IS VICTORY

PETERS Rifle and Pistol Ammunition

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The International News Photo above shows Lieutenant General Thomas Holcomb {left}, Marine Corps Commandant, and Major General A. A. Vandegrift {right} studying Japanese positions. The photo was made during General Holcomb's recent air inspection tour of the Solomon Islands. Colonel Clifton B. Cates stands between General Holcomb and General Vandegrift.

Bausch & Lomb experience, skills and facilities today are being devoted to the production of the optical instruments of war—to the thousands upon thousands of binoculars, range finders, anti-aircraft height finders, aerial photographic lenses, and many others.

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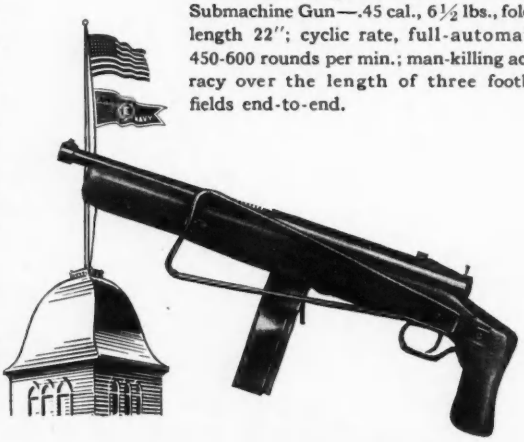

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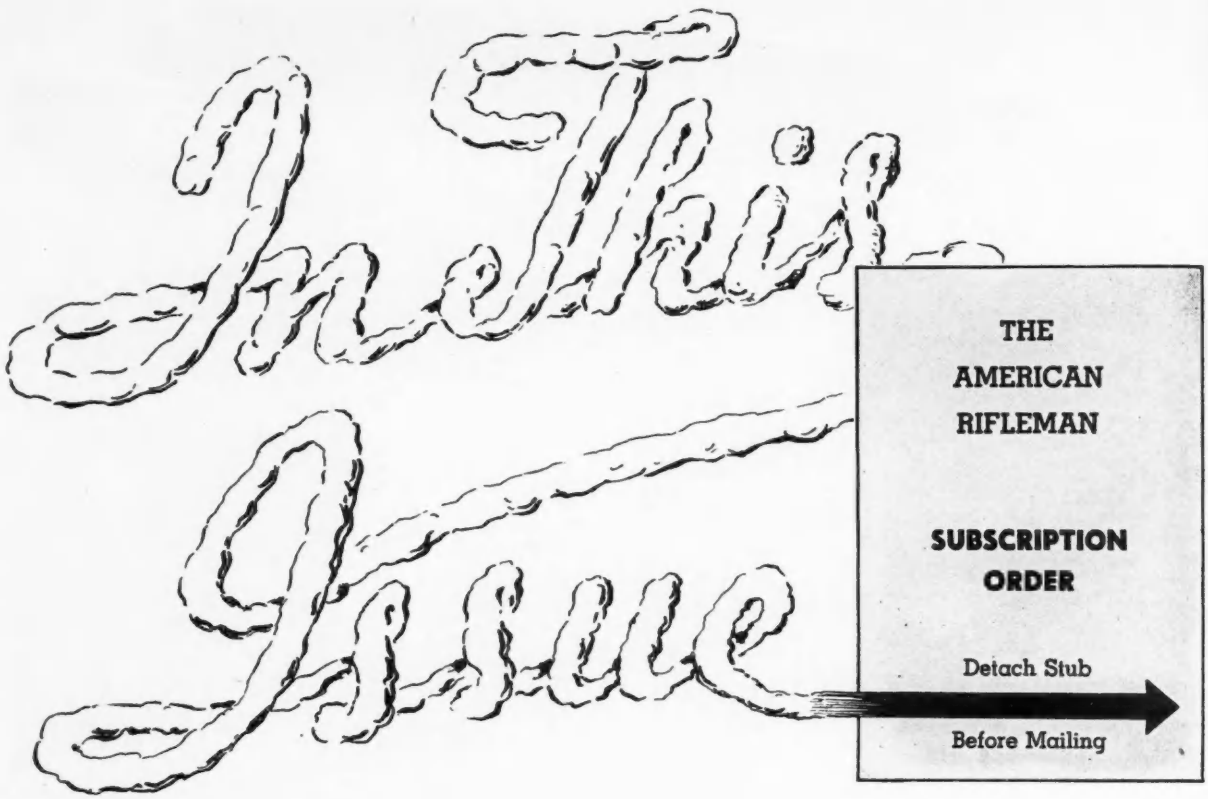

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EVEN if your subscription is already paid for several months more, we urge you to mail the card now and thus save us the expense of notifying you by letter at "renewal time." To do so will insure no break in your receipt of the magazine; you will also be aiding our effort to conserve paper, useful for war purposes.

LIFE MEMBERS and long-term annual subscribers likewise are urged to use the order card insert. Not to order a subscription for themselves but to sign up a sportsman friend. Nearly every one of us knows at least one good American who has been "thinking about" joining the N.R.A. Many of these potential members, we believe, will think this is a good time to join, if they are handed the handy order card. Try it!

Remember the postal may be used for NEW or RENEWAL orders. And payment need not be sent until our invoice is received.

STRAIGHT SHOOTING PAYS—KEEP 'EM FIRING!

NATIONAL RIFLE ASSOCIATION

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INCORPORATED

From

Montezuma *to* Gavutu

(The Solomons)

Congratulations

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DEADLY Marine marksmanship and daring told its story in this—America's first land offensive of World War II — cleaning out 1,200 Japs in the toughest landing yet in all the Solomons.

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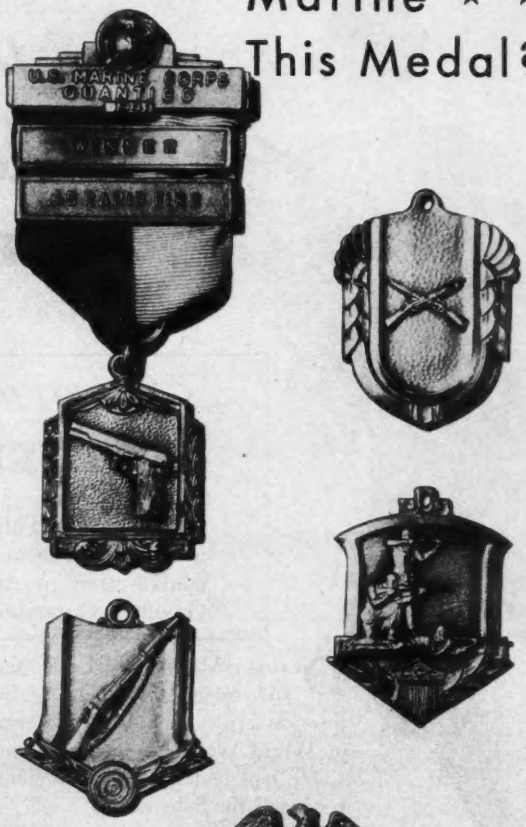
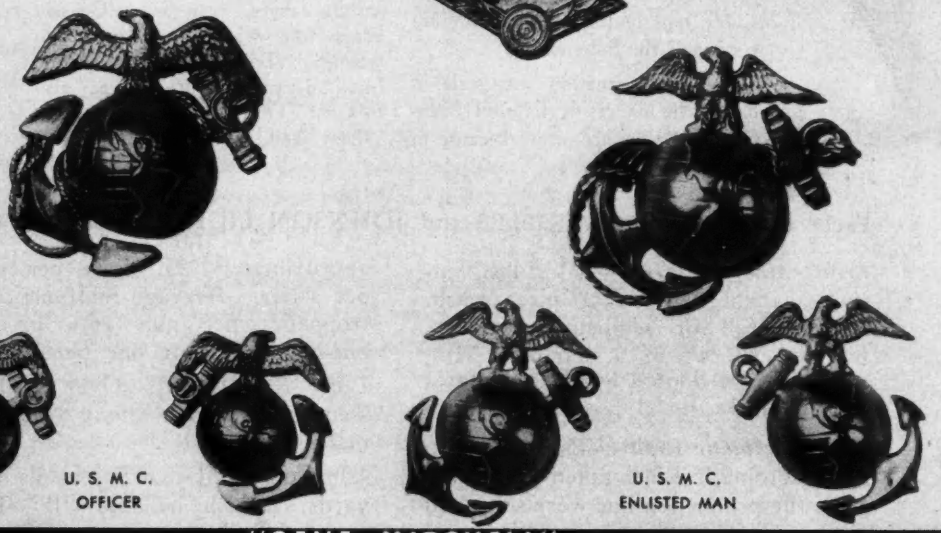
★ Plans were made many, many months ago to unlimber a great new line of shooting medals for peace time shooting competition.

★ The Marine Corps as one of our most prominent service friends was to have a wider scope of choice — a better selection for participants. But now that the Marines have moved from peace time shooting ranges to the Jap-infested coconut groves of the Pacific, medals of this nature are out. Instead of designing medals, we are now busy turning out insignia for the Officers and Men of the Leathernecks, Devildogs or as they are best known, the United States Marines, and we are darned proud of it.





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The *Official Journal of The National Rifle Association of America*

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THE COVER: A water color sketch of a *real* Marine by a *real* Marine—Major Donald L. Dickson. The colorful Marine in dress blues gives way these days to an equally colorful but more dramatic figure, the jungle fighter so ably depicted by Major Dickson; "looking like a pirate" as the Major says. And he should know for he was in on the first of the fighting for Guadalcanal; underwent dozens of bombings and shellings and took part in any number of forays into the Jap-infested jungle. His experiences, matched by his artistic ability, gives us a cover for this special Marine issue of which we are exceedingly proud.

Intrigued by the Major's descriptive powers, we persuaded him further to do "Guadalcanal Sketches" appearing on pages 14 and 15, and made possible by the cooperation of Brig. General Robert L. Denig, Marine Corps Public Relations Director.

THIS MONTH:

The dedication of this issue to the United States Marine Corps is the first in a RIFLEMAN series of tributes to our fighting forces and particularly the riflemen within those forces. Because of the recent spectacular fighting of the Marines in the Solomons as well as the nature of that individual combat where the rifleman or small arms expert is supreme; probably, too, because of the amazing record of rifle exploits—peacetime or wartime—the Marines were chosen to lead off our tribute parade.

Captain James Sherman. In our fortunate meeting with Major Dickson in one of the buzzing restaurants of the Nation's Capital, we found him waiting for one of his buddies, a Captain who served with him in the Solomons. Captain Sherman's arrival strengthened our admiration for another enthusiastic but modest Marine hero, who turned out to be the same Captain James Sherman, mentioned often by Tregaskis in that great job of reporting, "Guadalcanal Diary," as playing such an important part in the now famous Tenaru River battle.

Sensing a real story, we persuaded him to join up with Major Dickson in contributing to this Marine issue. The result is his own fighting story, appearing on page twelve, which is typical of all personal accounts of Marines returned to this country.

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Foreword

MEMBERS OF THE NATIONAL RIFLE ASSOCIATION:

Your friendship, as indicated by the dedication of this issue of THE AMERICAN RIFLEMAN to the United States Marine Corps, is sincerely appreciated.

I was introduced to the N. R. A. in 1901. It was a rude introduction because our team was soundly trounced, finishing sixth in both the Hilton Trophy Match and Interstate Team Match—events which the following year were combined into the National Rifle Team Match. Naturally, we did not relish such a poor showing so we set out to learn how to shoot. By 1910 the Inspector of Small Arms Practice, U. S. M. C., reported proudly that "over one-third of the men in the Marine Corps are now qualified as marksmen, sharpshooters or expert riflemen!" How many of the present generation of officers realize that in those days the Army, Navy and Marine Corps were actually learning how to shoot from the civilians and civilian-soldiers who formed the backbone of the National Rifle Association? In 1911 the Marines won their first National Rifle Team Match, and by 1917 we had progressed so far along the marksmanship trail that every Marine who sailed overseas was a trained marksman.

There is no doubt in my mind that the annual National Matches and the nation-wide program of other competitions sponsored by the N. R. A. have provided the "spark plug" which has kept marksmanship moving forward in the Marine Corps. It has been to me, as Commandant, a most natural gesture of reciprocity to direct that the personnel of the United States Marine Corps assist the National Rifle Association wherever and whenever they can legally do so, without interfering with our essential training programs.

There have been some who thought that because of the great variety of weapons with which the modern fighting man is armed, we waste time when we spend days of training to ground our men in the broad fundamentals of rifle shooting. Many of our younger officers whose battle experience has been limited to jungle fighting may question the need of teaching a rifleman to estimate wind, judge distance, adjust his sights and get hits on a target six hundred yards or farther away. Those who hold such views overlook three important points—

First: The man thoroughly grounded in rifle marksmanship has an intelligent working knowledge of the handling and functioning of other arms. He approaches the B. A. R. and the machine gun with a feeling of friendly confidence. When the exigencies of battle require him to discard the weapon he carried into the fight, he has no hesitancy in taking up whatever weapon may come to hand. Give him a chance to find how the magazine and breech closure work, to familiarize himself with the sights, to discover the best firing position and he will go right on taking his aggressive place in the fire fight.

LIEUTENANT GENERAL THOMAS HOLCOMB, THE COMMANDANT, U. S. MARINE CORPS

General Holcomb first won renown as a rifleman. As a lieutenant in 1902 he won the long range rifle championship of the world. He was a member of the Marine Corps Rifle Team in 1901, 1902, 1903 and 1907, 1908 and 1911, and a member of the United States Team in the International Palma Trophy Match of 1902 and 1903. Throughout his long service he has greatly influenced rifle shooting within the Corps.

Second: The man who *knows* that he can hit what he is shooting at with a rifle is a confident fighting man. The enemy's bayonet arouses no fear because bayonets do not close with well trained riflemen. The enormous effect on morale resulting from proper training in individual marksmanship is alone well worth the time and ammunition required to develop a good shot.

Third: Of course, most of our fighting in the Solomons gave small chance to use the rifle at anything other than "point blank" ranges. But we must bear in mind that in the months ahead American soldiers and marines will fight in country where hard-woods and open prairies will replace the tangled undergrowth and marshes of the Solomons and New Guinea. There will be times aplenty when the practical limits for small arms marksmanship will be measured not by how far the rifleman can *see* his target, but by how far he is able to *hit* any target that he can see.

The Association is urging its clubs to conduct a program of basic small arms training with the .22 caliber rifle for men soon to be inducted into the armed services. You can make no more practical contribution to the welfare of these men and to the efficient training of our fighting forces.

The N. R. A. has gone far in expanding its membership and its prestige in the two score years I have been intimately acquainted with its activities. May it continue to expand its constructive influence at the same rate in the years ahead!

Sincerely,

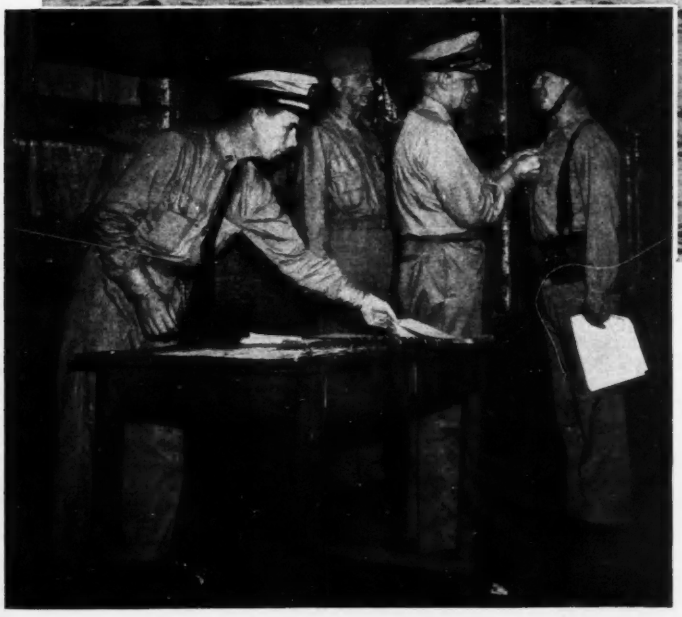
T. Holcomb.

Guadalcanal

In the 167 years of their gallant history, the Marines have never faced a sterner and fiercer fight than that which awaited them on the treacherous Jap-held beaches of Guadalcanal. Never was a more glorious chapter written than here, where the Leathernecks spearheaded America's first offensive of War II

RIGHT: From this crude desk in his tent Major General A. A. Vandegrift, USMC, directs the American forces on the island.

ABOVE: They are not maneuvers now as U. S. Marine Corps tanks rumble toward the front lines to block a Jap counter thrust.



Colonel Merritt A. Edson, later to receive the Congressional Medal of Honor, is shown with Admiral Chester A. Nimitz, as the Commander-in-Chief of the Pacific Fleet awards him the Navy Cross during a lull in operations in the Solomons. Leader of the famed Raider Battalion, Edson was preceded by General Vandegrift (center background) in receiving this decoration.

"WE FIGHT OUR COUNTRY'S BATTLES"

A SOLOMON ISLANDS ACCOUNT

By
CAPTAIN JAMES SHERMAN, USMC

I FEEL PRETTY LUCKY to be back all in one piece. My unit was 137 days on the Island, not counting double time for Sundays and holidays.

Somebody has said that jungle warfare was like fighting a war inside a mattress and not too clean a mattress at that. Fighting the Japs is like kicking over an ant hill and stepping on them as they come out. There are always more around your feet than you can step on and they come crawling around from behind you.

The expression that war is ninety per cent being bored to death and ten per cent being scared to death has a lot to it also. Probably the greatest thing that Guadalcanal has done for us is to teach us how to do it the next time, and you can be quite sure that there will be a next time, some place, for all of us that have been lucky enough to get back—and you can be sure the Marines will be in there fighting and winning on every battlefront.

The Marines we had on the Island were mostly young; the average age for my company was about nineteen. They had a keen sense of humor which was important or they would have cracked up, or ended up with a war neurosis. Their youth made them flexible, made it easy to forget the things that had happened the day before and take on the things that happened the next day, without worrying about it.

Here is an example of their sense of humor. We were less than a week on the Island when the rumor, "scuttlebutt," had it that President Roosevelt had said he would have the Marines home for Christmas, because the Marines had done such a good job on Guadalcanal. The rumor got back to the United States and from there back to the men who had started it. Letters from friends and sweethearts came from the United States. Of course, it was just wishful thinking. But when the unit left the Island on December 21, which made it physically impossible for the boys to be home by Christmas, word was passed around that the President was still going to have us home for Christmas; that he was still determined to do so; so Christmas was going to be moved up to February 22.

Being young has some disadvantages. The boys were all very homesick, as the story of "home for Christmas" illustrates. However, their ability to adapt themselves, I am sure, is now contributing to a very good rest outside the war zone where air raids and naval gun fire are just memories.

The biggest engagement my company was in was the Battle of the Tenaru River. This was the first large scale attempt on the part of the Japs to retake the Island. Mortar fire played a large part in wiping out the Japs in this particular battle. It was not unusual to experience a complete silence while a mortar shell was dropped in on the Japs as they lay in a coconut grove. Then, as some Jap got the idea that the last shot was too close for comfort and started for a new tree, our whole firing line would open up on him at once, like shooting ducks in a shooting gallery.

My First Sergeant Huffer and Gunnery Sergeant Smythe formed quite an unusual combat team. Huffer had very keen eyesight; Smythe was an expert rifleman of years' experience in the Marine Corps. Huffer would pick up the Japs by logs, trees or any kind of cover, point them out to Smythe who would take care of the disposal department—and so on into the day.

The Japs took advantage of cover (or as we call it "defilade") offered by the sloping beach at the mouth of the Tenaru River in that particular battle. About the only way to stop them successfully was to put some automatic fire on the defiladed slope and meet the Japs with a frontal fire as they came in. Six automatic riflemen in my company scooped a hasty hole in the sand and lay down shoulder to shoulder in the dark to face this concentrated thrust by the Japs across a narrow stretch of the beach. The results, as you may have seen in Life magazine, were hundreds of bodies strewn along a sandy beach with coconut palms as a background. As one of the automatic riflemen said later, "The Japs were coming so fast you just couldn't miss them."

Patrols into the Jap territory were always more or less made under tension and might be described as "spooky." Walking through a path cut in dense wood with a weather ear peeled is quite an unusual experience. Automatic weapons were a big help on such patrols because they gave us the sudden burst of volume fire necessary in such close quarters.

Most combat took place at ranges of from 200 to 300 yards at the outside. The World War marksmanship of 600 yards, with slings adjusted and so forth, which made such a name for the Marine Corps in Belleau Wood, for example, was never seen on Guadalcanal. Jungle warfare just isn't fought that way. The Jap invites hand-to-

hand combat. We would just as soon do our killing in the most convenient manner.

An ex-prize fighter by the name of Prout was standing behind a gun emplacement on the bank of the Tenaru River, when a Jap hurdled the emplacement, landed beside Prout, took up an "on guard" position with his bayoneted rifle and let out a growl that was supposed to terrorize. Prout, looking at the Jap in some amazement, spit out a slug of tobacco juice to windward and shot the Jap where he stood. They say the expression on the Jap's face was something like, "Say, old boy, was that exactly cricket? This was supposed to be a bayonet fight you know."

In a later combat the Marines had a chance to prove that they were just as good as the Japs in hand-to-hand fighting even at night, and they did just that. The Japs broke through the Marines' lines when we were attacking the west end of the Island, at night, and attempted to cut up a few of the boys, figuring on surprise and stealth. The next morning the score was found to be three to one in our favor as to casualties from hand-to-hand fighting.

A lot has been said about Japanese snipers. It can easily be seen how a few scattered individuals covering the trail can hold up a whole company for a considerable period of time. The Jap snipers can be located and disposed of, which, by the way, is not always an easy task. They won't call your shots for you. They are artists at camouflage. The only way to get a sniper out was to go out and pick him off with a rifle in rapid and careful fire. A lot of this was done because, after all, the Marines *are* riflemen.

In a great many cases new and novel means of getting rid of the Jap had to be thought up, such as hurling sticks of dynamite by Captain Torgerson and his unit in the Tulagi area. The Japs were persistent and would drag the killed or wounded away from the weapons they had mounted at the mouths of these caves and continue to fire their weapons even after the above mentioned treatment. As a result, when the last man in the cave was killed (in some cases ten days after date of landing) and the caves were looked into, piles of dead and well decayed bodies were found in the rear of the cave and the last man dead beside the gun. How they ever stood such house guests for such a period is beyond me.

Another example of the tenacity of the Japs was in a wooded grove on the bank of the Tenaru River where three Japanese machine guns had been set up to cut across our lines with enfilade fire. The same weapons had to be knocked out time after time with our mortar fire because the Japs insisted on moving up and taking over from their dead and wounded gun crews. Investigation of this area after the battle showed the Japanese literally piled up in mounds around these machine guns. Some of them were stripped clean of their clothing from the concussion of the mortar fire and died from its effect without showing any surface wounds at all. Others who were closer to the burst were burned black by the heat of the explosion. In this same area they were attempting in vain to take cover from this same mortar fire. One Jap was on his hands and knees with his fingers digging into the dirt on the side of a ditch attempting to dig himself a hole in which to take cover. He was found dead in this position.

Some of the scores of Jap planes shot down on the Island may sound fantastic to folks back home but they are absolutely true—thirty out of thirty-one, twenty out of twenty-seven—such scores were not at all unusual. Most of these planes were shot down by our fighter aircraft but our antiaircraft got a goodly share. These lads carried over their original Parris Island rifle marksmanship training into the field of antiaircraft fire. With a 90 mm. antiaircraft or a .50 caliber Browning, as with a Springfield '03, it is hits that count and they got plenty of them.

Malaria was a bugaboo that was likely to knock out any of us at any time. In some cases it recurred as many as six times. Dosage of as many as eighty grains of quinine a day has been known and fifteen grains will make your head swim. We all had to go out on attacks with the worry of malaria catching up with us in the middle of them, or possibly carrying the stuff around in a mild form which did not exactly increase our military efficiency.

Dick Tregaskis in his Guadalcanal Diary mentions Gunnery Sergeant Angus, equipped with shooting jacket and shooting glove, blackening his sights, accurately adjusting elevation and windage on his peep sight and having a regular field day in the department of rifle marksmanship. I stood by Angus and watched him pick off two Japs just as calmly as though he were at Parris Island teaching the "boots" how to "hold 'em and squeeze 'em." (And this does not refer to the new feminine Marines.) How Angus ever managed to get the shooting jacket with its clumsy chamois pads and a shooting glove ashore will always be a mystery, for very little of our battalion gear came ashore and absolutely no personal gear. Whether Angus carried this apparently highly valued equipment ashore with him and toted it around the Island for the intervening days or whether he made it out of the crude materials offered in this tropical paradise, I cannot say, but definitely he was wearing them and definitely he knew how to use them.

Most of us consider Guadalcanal Diary by Tregaskis to be a mighty fine book. Dick had a nose for news and wasn't at all backward about going into the thick of things for a story.

The Japs always attack at night—usually in the dark of the moon. As a result, we tried to clean up the action the following day because we did not like the idea of them having a second night to take a crack at us. Most of our battles last just about that long; a ferocious attack the first night, diminishing as the day wore on and pretty well cleaned up before darkness the second night. That second night was always a bad one to pass through, for after all, you can never be sure. But uncertainties like this make up jungle warfare, a Jap game we had to learn.

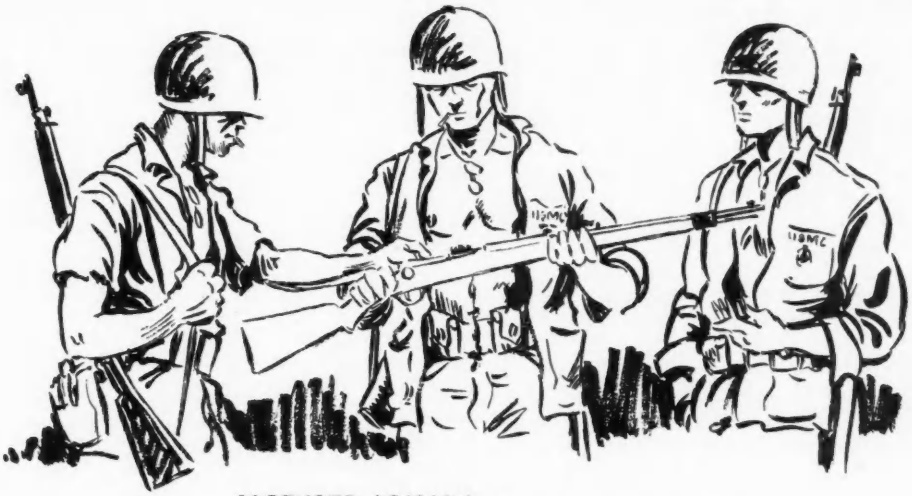
GUADALCANAL SKETCHES

BY
MAJOR D. L. DICKSON, USMC

YOU CARRY IT WHEREVER YOU GO BECAUSE YOU NEVER KNOW WHEN YOU WILL NEED IT. THE TRUSTY SPRINGFIELD HAS PLENTY MORE FIGHTS LEFT IN IT.

EVERYTHING ELSE MAY BE DIRTY--BUT NOT YOUR RIFLE. KEEPING WEAPONS CLEAN IN THIS CLIMATE WAS ONE OF OUR GREATEST PROBLEMS. ONLY CLOTH AVAILABLE WAS A PIECE OF SHIRTTAIL-- OURS OR A DEAD JAP'S.

HE IS STILL THE MAN WHO WINS WARS--
AND WAIT UNTIL HE FORCES THE JAP TO FIGHT OUR STYLE OF WAR.



CAPTURED ARISAKA--
GOOD RIFLES FOR SHORT RANGE, BUT THEY DON'T COMPARE WITH OUR SPRINGFIELD. SOME JAPS, PROBABLY SNIPERS, HAVE THEIR VERSION OF OUR STAR-GAUGE SPRINGFIELD-- MORE ACCURATE, BETTER WORKMANSHIP.

KNIFE ON A STICK
IS STILL PRETTY GOOD. THERE WAS A GOOD DEAL OF BAYONET WORK ON GUADALCANAL.

ASLEEP WITH HIS BEST FRIEND--
IT IS MUCH EASIER TO GRAB A FEW HOURS SNOOZE IF YOU KNOW YOUR SPRINGFIELD IS GOOD AND HANDY.

"FIRE LESS and FIRE BETTER—"

An Interview With an Army Observer on Guadalcanal

By WALTER McCALLUM

"FIRE LESS AND FIRE BETTER. Kill more enemies and save ammunition you may need later to save yourself."

That message, brought back from the steaming hell of Guadalcanal and New Guinea, where life or death depends on the accuracy of the individual rifleman with his weapon, is the big lesson learned from the successful Marine and Army campaigns in the Southwest Pacific where today Army Ground Forces are pushing the Japs toward their inevitable rendezvous with death.

"If there is one message I would like to have our soldiers going into those areas understand," said Col. Russell P. Reeder of the U. S. Army, "it is that every soldier going into the jungle should know his weapon, its characteristics of accuracy and its dependability. The fighting on Guadalcanal and New Guinea is savage. There is no quarter. It's a case of kill or be killed. And the rifle is the dominant weapon."

Colonel Reeder, an Infantry Officer, is back in Washington winding up the details of an operations mission to the Southwest Pacific areas, sent there by the highest Army authority. He was in on the taking over of Guadalcanal by the Army Ground Forces, spent endless hours talking with Marine and Army commanders and is back with the message that the individual weapon, the rifle or the automatic rifle, is the best friend the soldier can have in jungle fighting.

Colonel Reeder is a former West Point athlete, a football player and former assistant coach of the 1927 team that had the late Christian K. (Red) Cagle as its star. He knows his rifle shooting from the butts up.

"Every soldier gets rifle practice as part of his basic training," he said. "It is invaluable, but the soldier going into battle in the kind of fighting to be found in the Southwest must have more than that. This is the picture: Our troops are fighting in a dense, thickly wooded jungle that thins out in spots to ridges sparsely covered, and thickens in the low spots and around the streams. Seldom do you see the enemy at more than 100 yards range, and then only for a fleeting instant. The need is for calm, cool, deadly shooting, sometimes at vague targets; in other words, men who know their rifles and what they will do. Men trained on the firing line under conditions where a lot of guns are going off around them are highly valuable. But there's one thing we don't want. It is men we call 'trigger-happy', who squeeze off at any sound or movement. That sort of blind shooting discloses your position, may hurt your own men and wastes ammunition. And ammunition is valuable. Transportation facilities are not good and most of the ammo must be hauled by manpower.

"That is why I say, 'fire less and fire better'. You may need that ammunition in a hurry some time."

> "—American riflemen are better than we are. They nearly always hit the target."
>
> "We were told that the Americans on Guadalcanal would be easy to defeat. We were not told about American artillery which killed and wounded so many of us. We could dig ourselves into the ground and escape the American mortar fire, but there was no escape from the artillery fire and American riflemen are better than we are. They nearly always hit the target."—*Testimony of a Jap prisoner.*

"We are up against a very determined enemy," added Colonel Reeder. "Not only in the Pacific area, but everywhere. He is a pro and we are the amateur, but the amateur has caught up with the pro and is going to lick him at his own racket. From what I saw, we must abandon in the Pacific area the old idea of volume of fire. I say this because we now have a war of mobility, where the accent is heavy on aimed fire. We have to go back to the days of Roger's Rangers, when every man made every shot count.

"You can't hurt 'em or scare 'em by hitting around 'em. But you can do a lot of damage and win a lot of battles by hitting them. If you hit around 'em they don't budge, and they don't scare. And after you hit 'em they don't budge either, but for another reason. Just as a golfer or a boxer practices incessantly, the trained rifleman must keep in practice. Our work at Camp Perry has been invaluable, but it must be expanded in all our training. Particularly must our men practice shooting at dimly seen targets which is necessary down there."

Colonel Reeder hasn't much respect for the Jap as a marksman, but he has a lot of admiration for his ability as a personal camoufleur. "The little monkey is wonderful in concealing himself. He uses all the local vegetation, and all the local scenery. You can get within a few feet of them, knowing they are there, and not see them," he said. "I was told that Major General Vandergrift (Marine Corps Commander on Guadalcanal) was at his Command Post with three officers one day, standing in knee high grass. Suddenly out of the grass broke three Japs, one officer brandishing a sword. They were mowed down by hand weapons. They were so cleverly camouflaged and concealed themselves so well that they were on the group without being seen. They must have crawled hundreds of yards."

But the Jap doesn't like cold steel. "The American outfights the Jap with the bayonet," said Reeder. "Every time our men have been up against them with the steel

the Japs have been whipped. Col. Merritt A. Edson, the noted Marine Commander, said his men have made three separate bayonet charges and won them all."

Nor is the Jap a good rifleman. "He is plain lousy," said Colonel Reeder, "and his snipers have been over emphasized. The Jap has a flair for concealing himself in a tree trunk, in a maze of banyan roots, or in a coconut tree top. He shoots at our men from these concealed positions, and his little .25 caliber rifle doesn't make much noise or give out much smoke. It's hard to track down these snipers. But because of their poor marksmanship their value is more as a nuisance than real. So well concealed are they that our men frequently go past them and find themselves attacked from the rear. Then our knowledge of marksmanship and rifle practice is even more valuable.

"Another thing I would like to emphasize is that all our troops must have complete knowledge of all the infantry weapons of war. They must know rifles, pistols, machine guns, automatic rifles, hand grenades and everything used by the infantry soldier. You can't count, for example, on all your machine gunners getting through or your automatic rifle specialists getting through without being hit. Therefore, I cannot make it too strong that every soldier should know all weapons, and how to handle them. I had a lesson in this from the last war." Colonel Reeder served with the 30th Infantry after the war. One of the instructors was a Russian-born Sergeant named Nested.

"He used to tell us of the time on the Marne when the Germans were pushing forward without regard to casualties. They had killed all the men at one of our machine gun posts. Nested told us he got to the gun and tried to operate it, but he didn't know how at a time when it could have done a lot of good. That's why it is so important that all soldiers know all weapons.

"When I was on Guadalcanal," said Colonel Reeder, "a little pink-cheeked Marine by the name of F. R. McAllan, a Corporal, was pointed out to me as one of the best fighters. He didn't look like a killer. He had a nice face, weighed about 150 pounds and was very wiry. He fought so well and killed so many Japs he was made a corporal, and he wouldn't talk about himself but about his platoon leader. He had a special love for his Browning automatic rifle. 'I love this gun,' he told me. 'And I take care of it. It has helped me out of some tough spots.' "

Colonel Reeder said the fighting is so close on Guadalcanal that hand grenades are pretty useful. "Our boys, trained to throw baseballs, do all right with the grenade."

The Jap has developed something new. It is a wooden bullet, cut down to fit those .25 caliber rifles. "They fire them at short range," said Colonel Reeder, "maybe 10 or 15 yards. And they'll kill at that range. They let our men get past them and shoot at their backs with these wooden bullets. They won't carry far enough to hit their own troops, but they'll do a lot of damage at close range."

The Decline of "Armored Force"

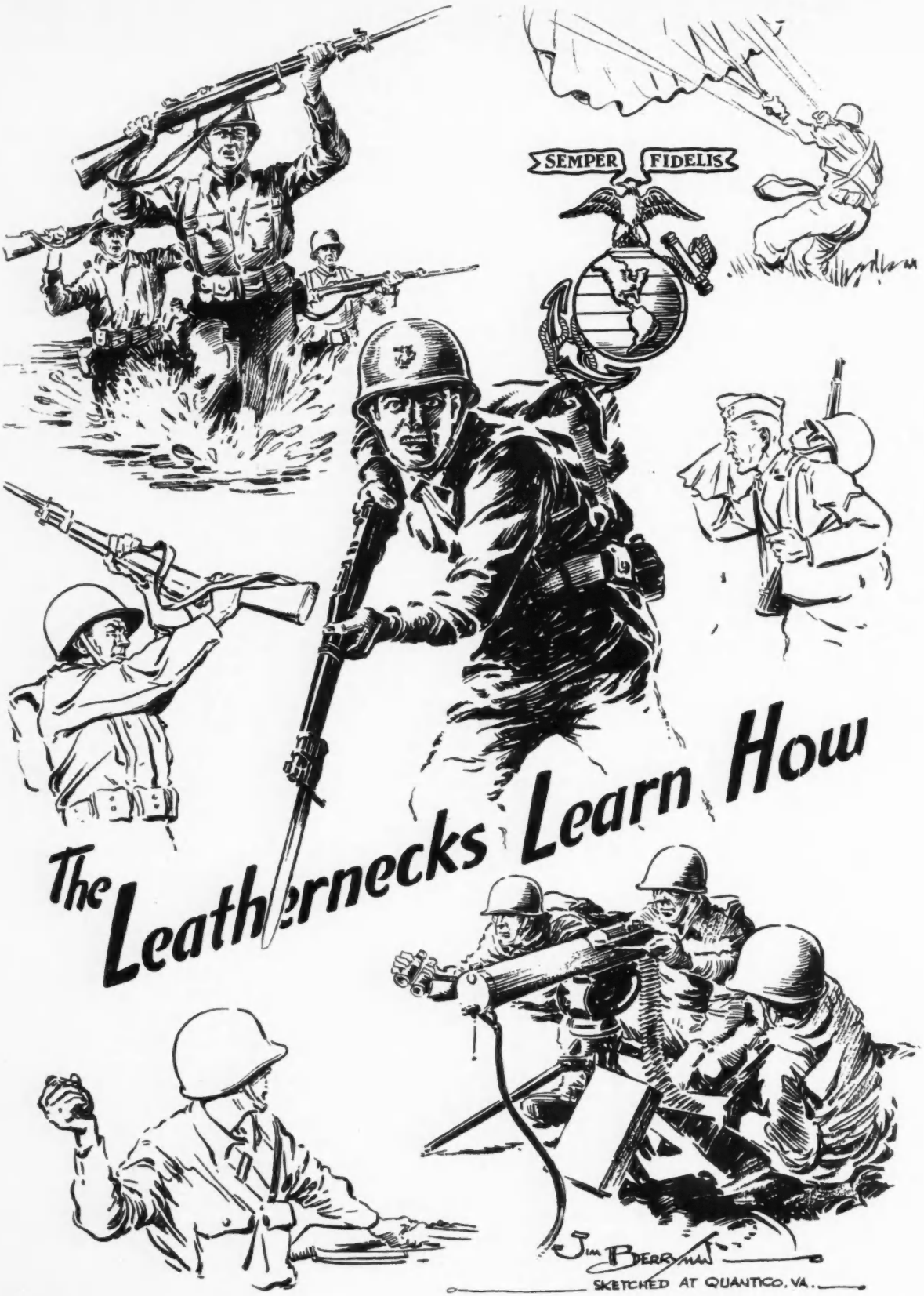
WE ARE CREATING many new divisions of armored troops for this war. And we are right in doing so. Armored force is a branch of the army that will be important for an indefinite time to come and perhaps always. But it may now be noticed that war correspondents and press writers have at last awakened to the paramount importance of infantry and other arms and are giving them more notice and more due credit than at any time since the advent of the two new arms—air force and armored force.

It is a well known fact that American made self-propelled tank destroyers were furnished in some numbers to the British 8th Army in Egypt. This new gun is accredited with having smashed the tanks of General Rommel's armored force in Africa and with having contributed much to the recent British victory in that country. If the claims made for this gun are true, we can see the handwriting on the wall. The dominance enjoyed by armored forces on the battlefields of 1939 and 1940 is over.

As mentioned before, this decline had become apparent in 1941 in Russia. In a recent newspaper dispatch, Henry Shapiro recently quoted Lieutenant General Chuikov as giving much credit for Russian successes to their *Katushka*, the still secret Russian gun that is responsible for many tank casualties.

It is another example of the old story of *fire power versus armor*. Fire power always wins in the end.

This does not mean that armor will be discarded. Warships have retained armor even though the projectiles fired from big guns can pierce it. Armor gives protection against small arms, and all guns but those especially designed. Therefore, armor will continue to be used to give protection against ordinary weapons and to force the enemy to take special measures to protect himself against armored vehicles. Nevertheless, armored force will gradually lose its abnormal ascendancy, and, although useful and necessary, will never again occupy the powerful and dominating position that it held for a brief moment in the early part of this war. Although the speed of motor vehicles on roads or suitable terrain will continue to be very important, even that value will be somewhat lessened by the coming inability of armored vehicles to give the same protection to motor columns that has been relied upon for the last three years.—from *The Cavalry Journal*, January-February, 1943.


SEMPER FIDELIS
The Leathernecks Learn How
Jim Berryman
SKETCHED AT QUANTICO, VA.

Turning Out the Basic Fighting Unit—The Marine and His Rifle:

THE MARINES HAVE the "know how" for production of the finest human fighting machine in the world. Just as American industry, in its transformation from peacetime to wartime production, has made use of a tradition of engineering and mechanical skill in the widely advertised "know how," so the United States Marine, throughout the entire Corps, personifies the tradition of fighting efficiency, which in itself is the "know how" for indoctrinating every new member with that tradition.

The U. S. Marine is a manufactured product—turned out by the careful but stern instructors, coaches and officers in an atmosphere of infectious "esprit de corps" surrounding every Marine base. The recruit, no matter what his future assignment may be, is well grounded, literally, in the basic essentials of fighting traditions. He learns that his rifle is to be a part of him; that he and his rifle is the basic unit on which the Marine Corps maintains its reputation for handling every emergency. He finds an easily placed confidence in the men who are to teach him the use of his rifle. His instructors, every one of them, can show an impressive record of peacetime competitive shooting; many of them, a record of deadly marksmanship in action.

He finds that to be a real Marine he must be "decorated" with qualification medals. He has a tradition to uphold for marksmanship. The enemies of every war have testified to this effect. Typical is this quote from the Germans of the last war: "The high percentage of men thus decorated (as marksmen, sharpshooters and expert riflemen) as perceived among the prisoners allows a conclusion to be drawn as to the quality of the training in rifle marksmanship that the men (Marines) received. The prisoners are mostly members of the better class, many of them artisans, and they consider their membership in the Marine Corps as something of an honor. They proudly resent any attempts to place their regiments on a par with other infantry regiments; call themselves "Soldiers of the Sea" and are well informed as far as the history of their Corps is concerned. Their training in rifle marksmanship is remarkable. Once they broke through our left flank they settled down behind rocks and by their rifle fire broke up every counterattack."

Today's training in this respect can scarcely be equaled by any other outfit. Again the "know how" resides in veteran riflemen, members of National Match teams who have proved their understanding of rifle marksmanship through years of range and match competition with the finest riflemen in the world. From the comparatively small numbers within peacetime service (some 16,000 average year, 1937), have come 168 major individual National Match winners and fifteen team championships within the thirty-one years of competition for the Marines. When the enrollment was boosted from the 65,000 on the day of Pearl Harbor to the better than 200,000 of today, and mass production of Marines became a necessity these men were called in from their military stations or from civilian occupations to take charge of the expanded range requirements. Such a program has made possible the emphasis on small arms marksmanship, a precept of the Marine Corps, whether the recruit's future duty may be infantryman, artilleryman, radio operator, truck or tank driver or correspondent. Special schools for engineers, communications, chemical warfare, aviation, gliders, paramarines, to meet the needs of amphibious attacking force training will follow, but the Marine remains a rifleman throughout—a result of his basic training.

The four main training centers, Quantico, Va.; New River, N. C.; Parris Island, S. C.; San Diego, Calif.; are well equipped in range facilities, and further, have the Camp Perry veterans on the job to take care of every recruit's or for that matter every officer candidate's small arms training. The roster of officers in charge, of instructors or of coaches, is a list of National Match winners in itself. Photos of many of these men heading up the training appear elsewhere in this special Marine Corps issue. But in a visit to the ranges one is impressed with the thoroughness of the Marine's insistence on experienced shooters, to the very coach on each firing line. Any rifle range is an old home week for any visitor familiar with Perry matches.

Basic "boot" training at the minimum means three weeks of extensive small arms instruction and firing: one week of lectures, demonstrations, dry firing, "snapping in"; one week of .22 caliber application of the above, wherein a minimum of 250 rounds will be fired; the third week, another 250 rounds of .30 caliber with qualification firing on the last day. No matter what the demands of time may be or the number to be put over the range, this instruction is notable for the personal attention given each recruit or officer candidate. An experienced coach for each

(Continued on page 23)

Camp Perry Veterans—Turn

Upper left, Quantico's pistol team, made up of ordnance and range instructors. Recent winners over Navy Middies

Heading up Quantico instruction is Capt. W. J. Holloway and Gunner K. E. Harker, here shown comparing Carbine and M-1

The Commandant, Marine's number one Camp Perry veteran as the first to star in matches (1901)

Right, Lt. Thurman Barrier, Marine's top ranking (1941) pistol star, helps "turn 'em out" at Parris Island base

At Parris Island, Gy. Sgt. R. F. Seitzinger (above) Gunner Morris Fisher (left) Lt. Claud L. Floyd, Jr. (right) assist Maj. Albert Moe (not shown) in turning out "boots" to Corps standards

Out Finest Military Marksmen

A "big three" of Marine shooters, Col. W. (Bill) Whaling and Col. M. A. Edson, both of Solomon I. fighting fame, and Capt. Calvin Lloyd, now head of Marine target practice

San Diego range shares burden of "boot" training with Parris Island. Gy. Sgt. E. V. Seeser, President's Match winner, 1938 (above) assists as veteran shooter-coach

Maj.-General Julian Smith, (above) C. O. at New River. (left) His rifle range crew Lt.-Col. R. Presnell, Capt. J. Christopher, Capt. J. Rutledge, Lt. J. Petrie, Gr. Bailey

Above: At San Diego Major J. Snow (right) gives cup won in Jap-sponsored Tientsin match, 1928, to Lt.-Col. E. L. Mullaly. Gy. Sgt. T. Jones (left) and Gunner C. Harris (right) help as instructors

MATCH-ABLE MARINES

How well the Corps has followed its conviction that competition breeds skill, is best demonstrated by the National Match record

COMPETITION BREEDS SKILL, that is an axiom on which much of the Marine Corps system of marksmanship instruction is based—competition to develop training methods, competition to develop incentive, competition to develop instructors.

How well this plan has worked out is evident in the combat record of the Corps, or in its far-flung training program today. But behind all that lies a competitive record unmatched by any military organization in the world, which stands as tradition to present generation Leathernecks.

Coming out of the Spanish-American War with vivid remembrance of the Guantánamo campaign, Major G. F. Elliott was deeply impressed with the idea that every individual Marine should become a sharpshooter of unerring ability. When later he became Major General Commandant of the Corps he began a drive for the realization of that ideal and the start of the Marine Corps marksmanship system may be credited to him. But breaking into the competitive picture even in those early days was no simple task. Practically all of the outstanding rifle shots were civilians or militiamen whose organized match experience dated back some thirty years to the beginning of the National Rifle Association.

Under the influence of General Elliott and the Inspector of Rifle Practice, Major C. H. Lauchheimer, the first Marine team to compete in a match reported to 2nd Lieutenant Thomas Holcomb (now Lieutenant General, Commandant) near Annapolis, Maryland, in 1901 to prepare for the big Sea Girt events that year.

Neophytes, by and large, in that field the twelve-man Marine squad which competed for the Hilton Trophy was no ball of fire. It placed sixth (and there largely through the efforts of Lieutenant Holcomb) in the field of eleven, pouring two-year-old as-issue black powder ammunition through their Krags in competition with the superior handloads of opposing teams. Not a flying start by any means, as it turned out, but Marine Corps squads came back year after year to Sea Girt or Camp Perry. It began to look for a while like the Leathernecks were after permanent possession of sixth place. But there were a couple of bright spots all the while.

Qualifications began to rise (the real purpose behind the competitive spirit, of course) to a point where in 1909 more than one-third the Corps was at least a marksman in comparison to a mere ninety-eight qualifications in 1900. But this and the continued individual success of Lieutenant Holcomb in the national and international picture still failed to satisfy those who dreamed of such things as 75 or 80 per cent qualifications and Marine competitive teams which year in and year out could more than match the other service and civilian teams.

How close did the Corps finally come to those dreams? Well, discount those first nine years, 1901 to 1909, that the Marines tried to jimmy the competitive rifle door. Chalk them off to experience or call that period of Krag (and other assorted) rifles the Dark Age of military competition. Start with 1910 when the Marines started using the Springfield and call that the start of the Modern Era, for such it was. Now look at the record—

From 1910 through 1940 (the last time the National Matches included big bore) the United States Marine Corps has won the National Trophy, emblematic of the championship of the nation, fifteen out of the twenty-four times the match was fired. The next closest competing branch won it five times.

In the Marine Corps Cup Match the Marines have won fifteen out of thirty-one times.

In the President's Match a Marine Corps shooter has won sixteen out of thirty-eight times with the nearest competing branch supplying a winner only four times.

Marines hold or have tied twelve out of seventeen possible records they could hold at the National Matches.

In the Wright Memorial Grand Aggregate—which is an aggregate score of almost all the big individual matches at Camp Perry—Marines have won twelve out of twenty-one times with the nearest competing branch having scored thrice.

In all of those matches Marines have won 168 times compared with seventy-three for the next nearest competing branch.

Picking up again at 1910, tracing Leatherneck progress through the years is a story of men—men of enthusiasm and ambition who created the tradition of Marine superiority on the rifle range, who got the best out of a rifle.

Second place, a new high for the Corps in the National Trophy Match that year, was followed by the inevitable—victory in 1911 by a margin of sixty-two points. And firing under Captain D. C. McDougal, the team captain, were names familiar even to us now—Captain Thomas Holcomb, Sergeant Olie M. Schriver, Lieutenant Marion B. Humphrey, Lieutenant R. S. Keyser . . . and Corporal Calvin A. Lloyd, a new name in the Marine shooting circle who was destined to become one of its biggest names.

Corporal Lloyd that year firmly established the Corps on the range with an individual victory in the President's Match, another "first" for the Corps. From that year on, with the exception of six years he was out of the service, 1912-1918, Lloyd (later a Chief Marine Gunner) has returned to the National Matches as competitor, assistant coach or coach.

No National Matches were held in 1912 and victory eluded the Corps the two following years. But still men whose work later was to mean so much to Marine marksmanship came into the picture—Lieutenant Andrew B. Drum, Lieutenant C. B. Mathews and Lieutenant L. W. T. Waller (now Brigadier General). In 1916 the team, under Captain W. G. Fay, won the big match held this time at Jacksonville, Florida.

War interfered with competition in 1917 but the effect of the program was evident. From a qualification rate of 33 per cent in 1910 (or from the practical zero in 1906), qualifications increased to 41 per cent in 1914, to 64 per cent in 1917; and finally to 83 per cent in 1918, an all-time high for any service. Men of the Corps were being told in that year that only qualified [illegible] would be sent to France.

It was this record which prompted one small arms authority to say that "no finer shooting body of men than the United States Marines ever went into war." That has applied ever since—and on the range as well.

The virtual Leatherneck monopoly of the target field began in 1918 when Major Harry D. Smith and Captain Joseph Jackson led a group of veteran instructors from Parris Island to another National Team Championship. This touched off a parade of Marine victories in 1919, 1921, 1922, 1923, 1925, 1928, 1930, 1931, 1935, 1936, 1937 and 1940—incredible in view of the fact competing teams frequently numbered more than a hundred and even when you do not consider that the National Matches were not held in 1927, 1932, 1933 and 1934. Thirteen wins out of nineteen tries!

But in addition to the sustained success of Corps teams over that period of years at the National Matches, the Marine team of 1921 rose to a height of shooting perfection that probably will never be equaled anywhere.

Under the guidance of Major Smith and Captain Jackson the team competed in three programs of matches—Wakefield, Sea Girt and Camp Perry. It won forty-four out of seventy-one events, including the National Individual and National Team Matches. The avalanche started at Wakefield when young Marine Sergeant [illegible] Jones poured 132 consecutive bullseyes into the 10-ring "A" target at 300 yards, while Captain Jackson, who shot rapid-fire match at 300 yards, fired eight consecutive possibles (50 of a possible 50)—eighty shots all in the black and he quit because "he was tired working the bolt."

Then Sergeant Jones again, in Sea Girt's fifteen-shot Libbey Match at 1100 yards, not only fired the first possible ever made at this range, but continued firing for two hours, putting sixty-six consecutive hits into the 36-inch bull for what many hailed as the "greatest exhibition of long range shooting in history."

Further [illegible] Sea Girt's contestants also saw Gunner Lloyd fire [illegible] consecutive bullseyes on the 20-inch "B" target at 600 yards and Marine Sergeant E. F. Holzhauer shoot forty-one straight bulls on the 36-inch target at 1200 yards. Sergeant R. J. Doyle put in the killing blow when he quit firing at the 16-inch bull at 500 yards after a run of [illegible] straight for what THE AMERICAN RIFLEMAN termed the most sensational shooting under match conditions ever recorded.

Then, on to Perry where Sergeant J. W. Adkins set a new record in the Wimbledon Cup Match of seventy-five successive bulls at 1,000 yards, and followed that with a run of eighty in a row at 900 yards. Gunner Lloyd kept up the pace with eighty-three straight at 800 yards only to have another Marine, Sergeant T. B. Crawley, match it in the same event with 176 straight.

As a direct result of this Marine "blitz" the V-ring was adopted for the 1922 matches and still is in use. Sort of a perpetual memorial to the Big Marine Team—and the incredible year of 1921.

More big Marine years followed and brought prominently into this picture more men whose names are now synonymous with shooting skill—men like General Julian C. Smith, Colonel W. W. Ashurst, Colonel Merritt A. Edson, Colonel William J. Whaling, Major Morris L. Shapley—while "old timers" like Cal Lloyd and Olie Shriver, who had been in on the start of Marine match activities, were still active in the game. Most of them are now [illegible] in combat or on the training ranges of the Corps. [illegible] the record of the Marine Corps in the competitive history of America—a brilliant tradition combined and sustained by men who foresaw its ultimate benefits and who transmitted its influence to the entire Corps. The Marine system had been established; the individual Leatherneck—was the world's finest military marksman; a wealth of experienced coaches and competitors insured continuance of the program for many years to come.

LEATHERNECKS LEARN HOW

(Continued from page 19)

firing point and, wherever possible, the same firing point assignment for coach and student throughout the week, with notations on individual shortcomings and a coach's individual attention toward improvement. The variation in high degrees of qualification may depend on the time variable at different ranges at different times, but the basic essentials are there for the making of the true Marine. When next you see the qualification "decorations" on a Leatherneck you may have an indication of rifle ability by comparing with the following scores for the qualification course: Out of a possible 340 points with the M-1 (Garand) rifle, Expert qualification calls for a score of 306 or better; Sharpshooter 292, and Marksman, 268. With the '03 (Springfield) rifle, over a 250 point possible course, Expert qualification requires a score of 225 or better; Sharpshooter, 215, and Marksman, 195.

After the basic course on the target range, the recruit is by no means through with rifle practice. His rifle has become a part of him, however, and his bayonet training, a part of the toughening up process, makes it more so. He goes on to automatic rifle, pistol, combat firing in a schooling equally comprehensive. In combat firing he learns the requirements of battle conditions; he may be sent over the new "R" Course of moving targets. He is sure to come up for re-qualification firing at least once a year, as long as he remains in the Corps. In fact, two of the big ranges of the Marine bases are given over almost entirely to this re-qualification firing, which includes two weeks of practice and a finishing off on the "R" Course.

Such is the stuff Marines are made of. An individual of discipline, of training, of tradition and spirit and with it all, initiative for every emergency. These are the men who took the Solomon Islands and held them; the men who proved they could "learn how" in the rigorous schooling of fighting men.

BUCK FEVER

By LEE E. ECHOLS

JUST THE MENTION of Buck Fever starts a tyro pistol shooter squirming like a pickpocket at a police line-up. He can be shooting practice scores like Marine Ace, Captain Walter Walsh, but let some inconsiderate club member remind him of the state matches in the immediate offing and his Police Course scores drop from the high 280's to a point where they border on the dangerous for the gardener tending the tract immediately adjoining the range.

He can be squeezing off his slow-fire shots with the nonchalant unconcern of Lieutenant Thurman Barrier, giving careful consideration to sight alignment, stance and squeeze, but the minute someone mentions an actual match his imagination carries him to a shoulder-to-shoulder predicament where he will have to compete against the so-called Bell-Ringers of the pistol game. His arm starts feeling like it was full of garbanza soup instead of meat, bones and blood and his shots begin to give the seven ring trouble.

I have talked with new shooters who have told me in all sincerity that the dread affliction has finally forced them to consider selling their entire outfit and getting out of the game before such an inferiority complex sets in as to actually deprive them of their livelihood. They have pointed out to me how they have watched Harry Reeves (Lieutenant U.S.M.C.R.) stand up on the "linea del fuego" and without a tremor send his shots all home for match after match; how they have seen P. M. Chapman and Al Hemming come from behind to win some of the most important shoots in the country and how Emmett Jones and Jake Engbrecht from the Pacific Coast start them to trembling at the mere mention of their names.

To the new shooter whose Buck Fever antics have brought about the turbulent condition leading him to believe that he will never amount to anything as a pistol shooter, this article is written.

To begin with, let me say that I have seen every top

ranking shooter in the nation get Buck Fever so bad at one time or another that he would fire more inconsistently than the rankest tyro. Let me tell you about it.

Let's start off with Jake Engbrecht. It's hard to write any kind of pistol shooting article without bringing Jake's name into it. He has been one of the list-toppers since breechloading days and just about the time everybody—including Jake—thinks he's through, he comes up with another world's record. Still I have seen Jake get the "Buck" so bad I have feared he would shake his buckskin jacket from his back. Jake is a pitiful figure when he gets it. He leans far forward, humps up his shoulders like an armadillo digging up a cadaver and gets a sort of

mettlesome look on his face. I saw it overcome him at Perry in 1939 and he almost had to be led from the line.

Another incident which happened at Perry that year, and which should be recorded in any treatise concerning the Nervous Nellies of the shooting game, was the fiasco known as the "Chapman-Reeves Shoot-off." P. M. Chapman of the U. S. Treasury and Harry Reeves, then of Detroit Police, had tied up in a mortal lock with a 200 possible in the 20-shots-timed-fire match with center-fire guns. Arrangements were made for a shoot-off after the matches were finished that afternoon.

I have become, through necessity, a sort of "Father Confessor" for possible Buck Fever candidates on the Treasury Pistol Team. On the other hand, I am quick to feel my perilous way toward anyone on the team who can give me a few words of condolence when things begin to break bad for me. At any rate, Chapman came around about five minutes prior to the shoot-off and advised me: "I am feeling fine. I think I can take him hand over hand. I have done a little dry snapping and my eye is as true as a bee line." After he had gone on over to the range officer to ask what target he was to fire on, I realized from his feverish condition he had been trying to convince himself instead of me.

The range officer assigned them targets and there were about a thousand spectators lined up behind them when the shoot-off took place. They were to shoot five shots timed fire. The range officer gave the commands: "Ready on the Right! . . . Ready on the Left! . . . Ready on the Firing Line!" I was located in a position where I could not only watch their stance but could also watch the expressions on their faces. Reeves immediately acquired the look of a man who has just been advised by his doctor that he has contracted an incurable disease. He changed his stance from that of a right-handed to a left-handed shooter during the command and I am sure that I would have learned other things about him which would have been valuable in diagnosing him under trying con-

ditions for this record, had not Chapman taken on such an unorthodox stance at the time that I completely forsook Reeves to concentrate my attention on him. Chapman, at the words "Ready on the Firing Line!" had dropped to one knee, Indian fighter fashion, and was putting on the most sagacious manifestation of the dread affliction "Buckus-Feveritus" that I have ever had the misfortune to observe. Just prior to firing each shot he would shut both eyes, get a death grip on the handle of his revolver and then yank it off like the hero in a Western movie. I became so enthralled in watching Chapman that I didn't get my eye back on Reeves until his last shot. I saw him milk that one in like a railroad engineer grabbing for the throttle and after the five shots were fired both contestants whirled and grabbed each other by the hand, congratulating one another on winning the match. When the targets were scored it was determined that Reeves had won with one ten, two nines and two eights. Now is that any kind of a score for world champions to shoot?

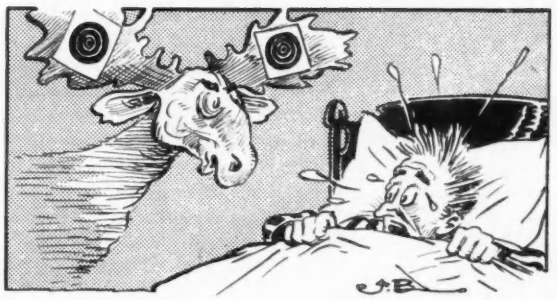
And don't think that these boys are exceptions. I have seen Mel Rogers trying to put a .45 clip in a .22 pistol. I have seen Coast Guard's Moe Wilson so goaty he blacked up his ammunition box instead of his sights and Francis O'Connor of Kansas City so ringy he showed up at a match with his shoes on the wrong feet. And before I give the impression of being exempt from the dread affliction let me bring out just one instance—there are many—whereby I was so obsessed with it that the rankest amateur would have died laughing at my antics.

We were in Buffalo in August, 1939. I was having a rather bad season and in the .22 National Match Course was quite surprised to find myself with a slow-fire score of 99. This amazed me but didn't particularly alarm me and I fired the timed-fire strings, ending up with a 100. I shot my first string of rapid fire and garnered a 50 with the five shots. I loaded up my clip with five bullets and as the range officer said, "Ready on the Right!", it suddenly dawned on me that I was only down one point going into my last string of rapid fire. The reaction was immediate and alarming. Usually with a little luck and a steady eye (the latter in my case always depending entirely on the former) I won't drop over a couple of points in a rapid-fire string with a .22 caliber gun. On this occasion, however, I felt a large lump start forming in my throat. A sort of "death dew" gathered on my brow and I had a feeling as though some diabolical fiend was pouring warm molasses in my hair. I knew immediately what was creeping over me and exactly what it would do to my score. I gave myself up to it wholeheartedly, however, and when the targets turned I raised up on my tiptoes and took a grip on my gun like a jack-hammer operator going after a block of sidewalk. I started spraying lead about ten feet in front of me and fired my last shot—well within the ten seconds allowed—almost straight over my head. My disappointment at having muffed a world's record should have been much worse than it actually was. Rogers, Meloche, Chapman and the rest of the boys made so merry at my expense that I couldn't help but laugh at the ludicrous spectacle I had made of myself.

In thinking of the many times before and since that a similar incident has happened to me and to many shooters who have been in the top circuit for several years, I can only say to the tyro shooter that he should not lose heart because of an occasional Buck Fever chill. He need only to look over the official summary of past performances in major events for three or four years to find that "Brodie's" of the widest slash have been executed by every shooter in the top bracket and that no one who takes up the precarious sport of pistol shooting can safely say that he is immune to the dire and timorous affliction.

Big Hank Adams of Solomons Island fame came up with one of the funniest of the 1940 reactions to the malady. After the National Individual Pistol Match at Camp Perry, Hank came over to our tent grinning from ear to ear. "How did it go, Hankus?" Arnvid Anderson asked him. "I ran my neck out like a well digger looking for his lunch," replied Hank as he sat down at the table and poured himself a generous helping of the juice from a few flowers. "I squeezed my pistol so hard the bullets squirted out like tooth paste!"

But Destiny wasn't fooling with Hank Adams. She started him off in Big Time Competition when he was seventeen years old. Her warm breath blew against his neck and wafted him to Bisley, England, twice on the U. S. International Rifle Team. She touched him with the wand again in 1935 and he came home to San Diego with the All-Around Pistol and Rifle Championship. She seasoned him in the caldron of nearly twenty years of Buck Fever competition and then on an August morning in 1942 when United States cruiser shells rocked the Solomons she put him on the Island of Tulagi with brother Marines and put in all her blue chips. She put her hand on his shoulder and looked him smack in the blue eye. She said, "Hank, here's what I've got in mind for you. You are going to be the man to show what years and years of competitive shooting means to a nation. You are going to prove to all hands that no matter how scared a man will get, basic training, learned through hundreds of matches, will instill automatic functions of sight alignment, squeeze

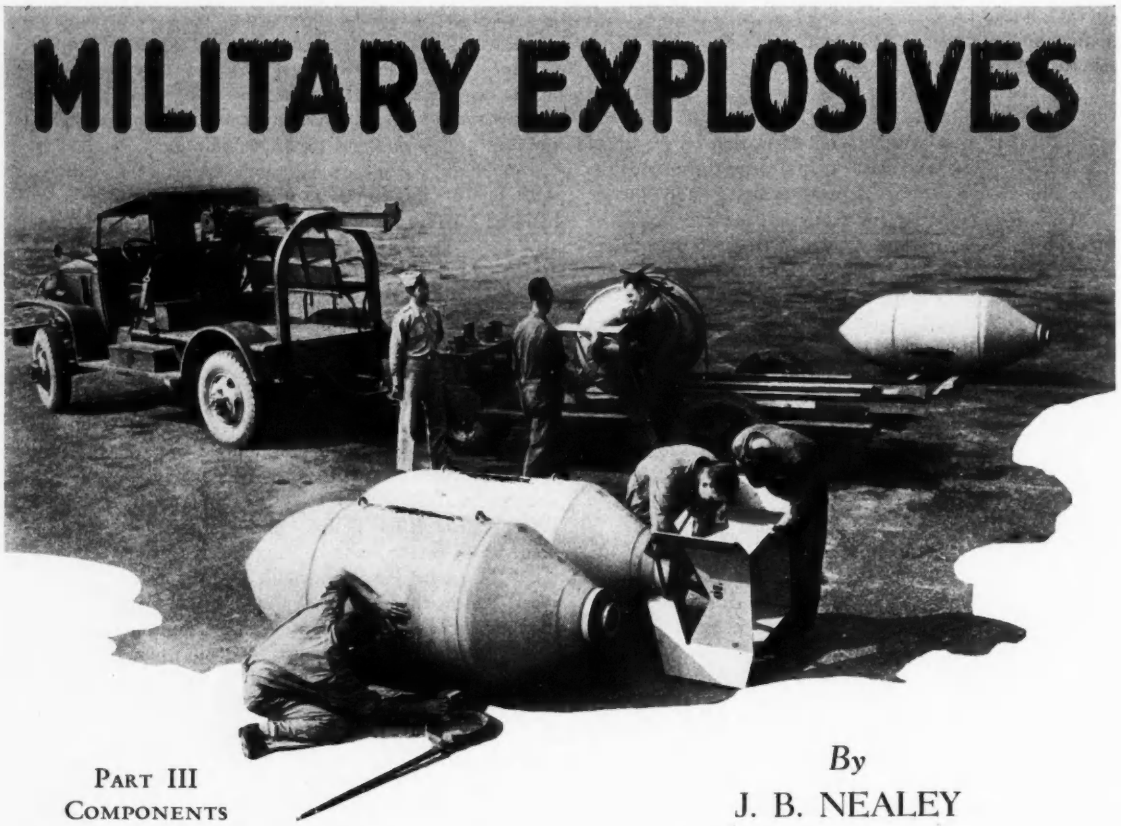


and speed which will so outclass an enemy unaccustomed to it, that for many generations after this war our men will start their boys shooting pistols and rifles as soon as they learn to scream 'Alibi'."

With that, Destiny turned him loose and he and his eight Marines charged thirty Japanese soldiers, killing thirteen of them in the charge and so confusing the remaining seventeen that they took sanctuary in a native hut. Then, while his boys held the rear of the shack, Hank crawled around to the front, raised up from behind a coconut stump with his short-barreled gun and quickly gave them what he had come to sell.

A grim and deadly Hank Adams killed fifteen of them before they hardly knew he was among them, and I'll bet when he gets back home he'll grin and admit that if he hadn't had the Buck Fever so damned bad, he'd have killed those other two.

MILITARY EXPLOSIVES



PART III
COMPONENTS

By
J. B. NEALEY

NITROGEN IS A PACKAGE OF LIFE OR DEATH according to how it is wrapped up. As God put it on this earth it is vital to sustaining life, but in a form as changed about by man it destroys life. If it were not for nitrogen there could be no life, for, in combination with carbon, hydrogen, and some other minor elements, fixed nitrogen is built up by vegetable life and, in turn, is assimilated into the bodies of animals, thus supplying man's food. On the other hand, without nitrogen men could not wage wars on the gigantic scale modern civilization has introduced, for all explosives are dependent upon the peculiar characteristics of this one element of dual nature. In explaining this we can say that nitrogen exists in two forms, fixed and unfixed. The nitrogen of the air is fixed, inert and harmless—a molecule containing two satisfied atoms. Man tears these apart into an actively unsatisfied state and combines them with other elements to which they are antagonistic and ever ready to break asunder with sudden and terrible violence when subjected to a blow or shock.

NITRIC ACID

Practically all military explosives are made by treating organic and inorganic substances with nitric acid. Therefore, the production of nitrogen and the manufacture of nitric acid bulks large in our war effort. The modern ammonia oxidation process of manufacture starts with nitrogen from the air to make ammonia. This ammonia with more air is passed through a hot converter containing platinum gauze. The resulting nitrogen oxide, after passing through an absorption tower, comes out as dilute nitric acid. This is mixed with sulphuric acid and concentrated nitric acid is distilled off.

For many centuries the world was dependent upon natural nitrate beds in India for its basic raw material for explosives—nitrogen and its derivatives, ammonia and nitric acid. About 1830 nitric acid was produced by the action of sulphuric acid on nitrates from Chile. Other industries such as commercial explosives, dyes, celluloid and other plastics, fertilizer and many others, also relied on these sources. Only a small proportion of the demand for nitrates was satisfied by manure, fish scrap, bone and cottonseed meal, tankage from slaughter houses, etc. Then a revolutionary development took place that changed the entire picture.

It was long known that the atmosphere surrounding the earth and some six or seven miles deep, was roughly one-fifth oxygen and four-fifths nitrogen, but the world waited for Germany to commercially develop nitrogen fixation plants and by-product coke-oven plants. This was long before World War I and was the beginning of the fabulous coal tar products industries including the dye industry. Hydrogen, toluol, phenol, etc., were by-products desired for explosives. America was still dependent upon Chile at the beginning of World War I, but learned its lesson and soon started building coke-oven plants and nitrogen fixation plants.

NITROGEN AND AMMONIA

Nitrogen is necessary first to obtain ammonia and nitric acid. There are two processes by which nitrogen is obtained from the air in nitrogen fixation plants; the

cyanamide process and the Haber process. The famous Muscle Shoals Nitrate Plant No. 2, built during World War I, was based on the cyanamide process. Liquid air made by compressing and cooling air until it becomes a liquid, is distilled to produce nitrogen gas. The nitrogen gas is passed through and absorbed by powdered calcium carbide, resulting in calcium cyanamide which contains about thirty-five per cent nitrogen. The calcium carbide is produced from coke and lime in high temperature electric furnaces, hence the location of these plants close to a cheap source of electricity.

Steam is blown through the powdered cyanamide to make ammonia, and nitric acid is made from the ammonia, as already described. Ammonia also yields ammonium nitrates, used with TNT to make the explosive amatol and various ammonium salts for fertilizer. We might mention that cyanamide is an excellent fertilizer and is exported in large quantities.

The Haber process is entirely different, ammonia being produced directly by combining hydrogen and nitrogen gases at high temperatures under pressure and using a catalyst. The nitrogen is obtained either by the distillation of liquid air or by passing air through red hot coke to produce nitrogen and carbon dioxide. The latter gas is separated from the mixture by bubbling it through water. This was the method used in Nitrate Plant No. 1 (Sheffield, Ala.), also of World War I fame. The Ordnance Department of the U. S. Army has recently built other nitrate plants.

There are a number of ways to make hydrogen, such as passing steam through red hot coke to obtain a mixture of hydrogen and other gases, and these other gases are removed by bubbling the mixture through water. Hydrogen is also generated in the by-product coke-oven process; in fact, about half the gas produced is hydrogen.

The war munitions program soon ballooned to such fantastic proportions that our present sources of hydrogen became all too inadequate. We then turned to natural gas of which the supply is almost unlimited. When one volume of this gas is cracked it gives forth two volumes, much of which is hydrogen. Some of the recently built Ordnance plants now draw on this raw material for their hydrogen.

SULPHURIC ACID

We have seen that sulphuric acid is another vital product that must be obtained in vast quantities to sustain our present explosives program. Prior to World War I we were dependent, to a great extent, upon a foreign source, Spanish pyrites, for the sulphur to make sulphuric acid because it was richer and cheaper than our domestic sulphur ore. This picture was changed by some "wildcatters" who drilled for oil in Texas in 1916. They gave up in disgust for their drills had penetrated nothing but sulphur. These sulphur beds, however, turned out to be the world's largest and purest, and have been the world's major source of sulphur ever since. To make sulphuric acid today, the sulphur is burned to form sulphur dioxide with the oxygen in the air and the sulphur dioxide is converted, by a platinum catalyst and heat, into sulphur trioxide, which is combined with water to form the acid.

TNT AND TOLUENE

Trinitrotoluene is the chemical name for TNT and in its manufacture toluol or toluene, together with nitric and

LOADING 37 MM SHELLS. 1. The primer is inspected, inserted and then pressed home into bottom of the projectile case

2. Propellant charge of smokeless powder is weighed and poured into the case. Case is then ready for projectile

3. The tetryl pellet which acts as a booster between the fuse and TNT, is placed in the projectile assembly

4. The cartridge case is joined to the high-explosive projectile, then fuse mechanism is screwed on by hand

5. Each shell is carefully gauged to make sure it will not bind in artillery piece from which it will be fired

sulphuric acids, are the basic raw materials. This mixture, when heated, produces TNT in the form of an oily liquid which is purified by washing with water and is then flaked or grained, as it is called, by remelting and cooling. As stated, toluene is one of the by-products from the destructive distillation of coal (coke ovens), but early in World War II it became apparent that this and other available sources would be insufficient. The Ordnance Department interested some of the large oil companies and together they developed a process by which toluene is produced from petroleum, of which there also is an almost unlimited supply. The discovery came from the fact that high quality aviation gasoline is a by-product of toluene synthesis, so the production of high octane gas and toluene have mounted together.

The toluene content of petroleum is only one per cent or less and when petroleum is distilled by the conventional methods toluene concentrates of five to twenty per cent are produced. These are of very limited purity, for they contain several non-toluene products that are difficult to remove. Other methods of obtaining toluene from petroleum are known but none of these furnish toluene in sufficient purity for the manufacture of explosives. However, one of the large oil companies finally perfected a successful process and has recently built plants for the separation of toluene from petroleum in essentially pure form, or 99.5 per cent.

AMATOL

Amatol is a mixture of TNT and ammonium nitrate. Early in World War I there was a shortage of toluene, while a more plentiful supply of ammonium nitrate existed (ammonium nitrate is made by mixing anhydrous ammonia with nitric acid). As an emergency the mixture was developed, but proved so efficient as an explosive that it later became standard. There were two mixes, 50-50 and 80-20, the 20 representing the TNT. Amatol of the 50-50 mix has about the same properties as TNT and can be handled and loaded into shells and bombs in the same way. It is used in large bombs and large shells.

AMMONIUM PICRATE

In World War I ammonium picrate was a secret explosive known as Explosive D. Equal quantities of carbolic (phenol) and sulphuric acids mixed and heated, cooled and watered, produce picric acid. Ammonium picrate is made by adding aqua ammonia to a hot mixture of picric acid and water until the acid is exactly neutralized. The solution of ammonium picrate thus made is crystallized in tanks provided with air agitation and the crystals are removed and dried. This explosive is so insensitive to shock and friction, that it is especially well suited as a bursting charge in armor-piercing projectiles.

EXPLOSIVE TRAINS

Explosive trains are of two types, those employed to ignite propellant charges and those used to detonate the bursting charges of shells, bombs, mines, etc. The primer usually suffices for small arms ammunition while the larger artillery shells require small charges of black powder in addition to the primers to properly fire the main propellant charges. In the high explosive train of a bursting charge the explosive primer, in a small metal cup, forms the initial explosive and this is set off by percussion from a firing pin. Then comes the detonator, a larger quantity of a less sensitive explosive, also held in a metal cup. The primer and detonator components may be combined in one unit and issued separately (primer detonator) or may be placed in the fuse. A delay element may or may not be used. Fuses with a combination delay and instantaneous are provided with a means by

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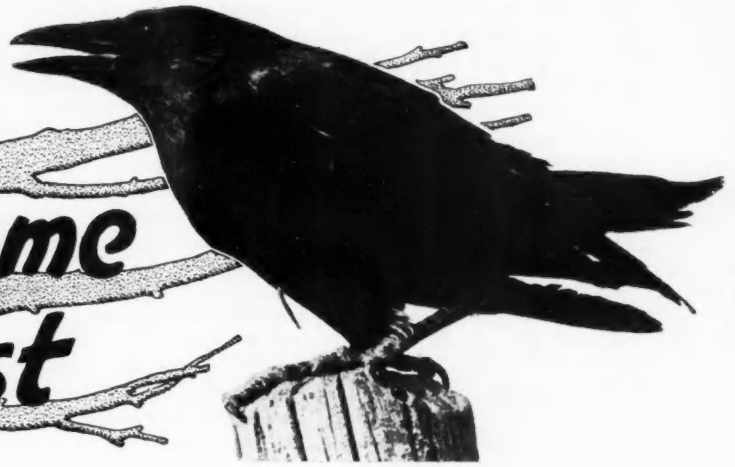
They All Come Home To Roost



By BERT POPOWSKI

YEARS AGO, WHEN DUCK HUNTING began to lose its keen edge of delight—principally because it was too slow—I began to look about for a substitute sport. What I wanted was a feathered target, one that could twist and turn in brainy aerial maneuvers calculated to bring it unscathed through a hail of leaden pellets. Surveying the field of live game birds, I saw none of them would fill the bill. There were too few of them and too many hunters trying for them. But when I surveyed the varmints I had it. The crow was elected. That choice hasn't occasioned me a moment's regret since.

The whole wide world harbors no smarter swashbuckler than Old Man Crow. None has less to recommend it to posterity. Despite population figures running into the uncounted billions, no bird is so uncertain of approach, so difficult to trick into fair gun range, or so difficult to hit when he's in there. In short, he's a natural. Yet only a pitiful handful of today's sportsmen have tasted the joys of such sporty shooting as would make the market hunters of yore turn over in their graves with envy.

The few experts at this relatively unknown sport are always willing to tutor earnest disciples, but few of them crusade against the crow or insist that their friends become devotees of crow hunting. They realize the game is choice and, like a rare vintage, not to be wasted on the unappreciative.

I was fortunate in having Tony Hoover as a teacher. Crow calling is an art with Tony, but only a prelude to the finale—the violent death of as many crows as possible. Thus, when I missed two consecutive birds, Tony snatched the gun from my hands and rang the bell with seven consecutive kills. So, I learned it from an expert and here are some of the do's and a few don'ts.

First, let it be known that not one reader in fifty can become an expert crow caller. The major shortcomings lie in the direction of laziness, but there are also amateurs who feel that re-reading of the instructions will replace endless hours of practice. I can recall hunters in fourteen states whom I have godfathered in the growing sport. A very few did it all through correspondence! The majority learned the tricks of the trade by observation, application and lots of practice.

Unfortunately, tyros frequently imagine they can pick up the niceties of crow calling at one sitting; the requirements of crow hunting at another. Scornful of the multiple precautions practiced by the veterans, they suddenly find themselves on the outside looking in—without precisely knowing what caused their sudden disgrace—barred by their own stupidity from the finest sport going.

Perhaps the major reason the tyro is inclined toward contempt for the crow's intelligence is the readiness with which the black birds boil in to the expert's call. Nothing could more unmistakably stamp him as a rank amateur, for the crow is an expert in every artifice which may earn him a free meal—earned, spurned or stolen. Puny in size and of insignificant strength, the sable rascal garners many a meal by employing a brazen voice, the memory of an elephant, and unswerving cooperation with every member of his clan. That is the reason he rallies so quickly to the distress call of a fellow crow. If enough of the black birds can gang together they may cause a fox or other carnivore to flee his prey by vociferously advertising his presence, whereupon they become still as death as they gorge themselves on it.

The rallying cry of a crow is not always a call to meat, however. It is also used to establish physical safety. Thus, though the Great Horned Owl is more than a match for a dozen crows, their persistent clamor upon discovering him offends his sensitive ears until he takes refuge in flight.

This is the moment the black gangsters have been working up to. Gleefully they swoop and scream and threaten the barred killer. When they've driven him miles away from the grove they favor for a roost or for nesting, they return at their leisure. Such teamwork saves many a sable soul for, unless driven away from that grove, the owl would take constant toll of the black birds during the dark hours—the only time when a crow is an utter fool and, when frightened, draws attention to himself by constant querulous gabble.

Since food and safety are the cardinal points on which crow longevity depends, it follows that the crow caller who can faithfully imitate the distress and/or rallying calls can also lure crows within range of his gun. That is where the veteran shades the amateur and brings in treble the number of crows. If he thoroughly knows crow nature and has a wholesome respect for the crow's binocular eyesight and all-around canniness, he can vastly increase his bag of crows. Perhaps fifty per cent of the crow hunter's efficiency can be credited to the caller; the balance depends on good generalship in meeting the incoming birds with both skill and foresight.

Sharp eyesight is Number One AA among the crow's personal safety equipment. If you show yourself or move any portion of the blind which screens you while calling, be certain he'll see it and redouble his caution—if he comes in range at all. Yet, when beset by a lack of cover, veteran crow hunters sometimes step behind such meager shelter as telephone poles, or assume tortured and unnatural postures on short-cropped grass. The fact that they kill crows while so contorted or exposed is not so much a tribute to their calling as to their remaining motionless while so doing—until the crows come within range.

Another way to defeat the crows' superlative eyesight is to make him come to you against the sun. Sounds simple, doesn't it? But you must know that a crow coming in upwind makes the best shooting and sometimes the combination is fatal to the tyro. But if you can do it, since you are then only a jet-black silhouette to the crows, you can back into dense foliage or deep shadow where your figure is unnoticeable. Never allow yourself to be framed against a patch of golden sunlight or the gleam of water behind you, even though you may be in the shadow cast by some natural feature.

If the day is dull and overcast and a *light* wind blowing, you *are* in luck. Crows, given their 'druthers, come in upwind or ride the wind past you and then turn to come in upwind. So, you have only to back into a screening shrub, throw up a light blind in front, and get almost every shot in the same small patch of sky. If a crow plays the game anti-Hoyle, all you have to do is wait until it passes your blind, then call it back upwind.

So much for the mechanics of locating yourself for shooting from a blind, though a blind is almost invariably located in or near shrubbery which attracts a considerable concentration of crow traffic. Once in the blind your rules of behavior are nearly inflexible and should continue so—as long as they continue to produce satisfactory shots at the incoming birds. But if they start to swerve away, just out of gunshot, lose no time in learning what is wrong and correcting it. Nothing is too simple to overlook.

A crow-shooting partner of mine once built himself a scanty blind in the middle of a grove while I continued upwind and built mine some sixty yards away. When I heard a crow and started calling, it came in according to Hoyle, but some sixty yords from his blind turned and darted away on the wings of an urging wind.

I cursed him for his stupidity in moving. He denied moving. Another crow came in and it, too, flared wildly. This time I suspected him of showing himself and said so at salty length. But he denied having been high enough in the blind to see the crow—so how could it have seen him?

Without further ado I walked over to his blind and found that while tumbleweeds screened him beautifully from the knees up, his booted feet were in plain sight and had served at least two crows with vivid red flags of warning. The slight shifting of feet in order to be in position for the shot, against the vivid backdrop of a patch of sunlight, did the dirty work. Slight though it was, the crows saw it and were gone.

Locating one blind behind the other in line with the direction of wind is unusual. It is only employed when you have implicit faith in your partner's marksmanship and in his judgment as to when to take the shots and when to pass them up so the caller will be in better position for his share of the shooting. No regular rotation of shots is possible in such a case; sometimes one shooter gets ten shots in a row before his partner burns his first shell. If the marksman in the lead blind passes the bird he must stay absolutely motionless while the birds pass enroute to the call, but he may rise to take them when they start coming back under the impetus of the caller's one-man barrage. It is a mutual tribute to the calling ability of one and the shooting skill of the other, plus the coordination of effort, that makes for a good kill under these circumstances.

THE USUAL PLACING IS TWO MEN IN A BLIND WITH THE CALLER TO THE LEFT FOR SAFETY

The usual placing is two men in the blind. The caller is located to the left, if right-handed, so he can cradle his gun in the crook of his left arm without the possibility of its muzzle menacing his shooting companion If three men are in the blind the caller is still located at the extreme left, unless he chooses to take the center post. He can then lean his gun against the front of the

(Continued on page 34)

"It Ain't Necessarily So,—"

By E. BADEN POWELL

(CONTINUED FROM LAST MONTH)

VERNON WAS ONE of those duck hunters *who swear* that large shot will kill wild fowl farther than small shot, but I said, IT AIN'T NECESSARILY SO. Study of the effects of single and multiple wounds in animals and birds of all sizes reveals that the killing power of wounds is proportionate to the square of the number of similar size and type wounds. In other words, two *separate* wounds affecting the *same quantity* and *quality* of tissue have four times the killing effect of a single wound, while three wounds exhibit about nine times the killing effect of one wound, five wounds exhibit 25 times the killing effect, and so on in geometric progression. Therefore, small shot at the distances at which the velocity and energy is still great enough to penetrate the vitals, will likely inflict two or three times the number of small wounds, each of which may not destroy as much tissue but in the aggregate will actually produce a greater killing effect, than a pellet of two or three times the size. The moral in this is that if the shot charge to be used limits the number of large size shot to a sketchy pattern, at a distance at which small shot would still retain sufficient energy to penetrate to the vitals, the smaller shot would be the more effective load.

A balance between range, shot size and charge, and pattern must be obtained to assure optimum killing power when shooting game birds with properly choked guns, regardless of gauge. For instance, ¾ ounce of No. 6 shot will kill all sizes of upland game birds and wild fowl very effectively at 30 yards on the wing, but so will 7's, 7½'s and 8's, and even 9's, for that matter have sufficient velocity at that distance to penetrate to a large fowl's vitals from any modern shotgun shell of .410 gauge or larger. If the bird is on the water, the 9's would likely kill better at 30 yards than the larger shot because of the greater number of pellets likely to penetrate vital areas of the head, neck or spine. While the No. 6 shot would be able to penetrate as deeply at twice the distance as the No. 9's, if the charge of No. 6 is limited to ¾ ounce, the pattern is so thin at beyond 30 yards as to likely not strike a vital spot, and nothing smaller than a single No. 2 pellet in a small game bird and a BB in a large game bird, will kill quickly at *any* distance unless struck in vital nerve tissue areas. Therefore, the writer prefers and uses shot sizes assuring multiple wound possibilities, with proper chokes, to effect quick, humane kills at maximum ranges.

Mellie was one of those "shut-one-eye-and-draw-a-bead" shotgun aimers who swore one must have sights at least equivalent to a ⅛ inch rifle ivory "jack" bead front and a rocky mountain full buckhorn rifle rear sight on any shotgun in order to hit consistently at any distance, but I said, IT AIN'T NECESSARILY SO because exhaustive tests on almost every conceivable type and specification of stock reveals an extreme "checking" position differential amounting to ¾ inch vertical and ¾ inch horizontal eye position from shot to shot, which would mean not more than 30 inches variation at 40 yards, and which is within the "effective" pattern of even full chokes. Therefore, skeet, trap and upland game shooting at 40 yards and under does not need elaborate aiming devices, and the ability to "point" a sightless smoothbore faster may get the shot off enough sooner to hit the target before it gets far enough away to require accurate aiming devices. However, at 50 to 80 yards range *only* the low power shotgun scope can provide the precise *direction* necessary to assure consistent hits, regardless of the skill of the gun pointer, because of choke characteristics. All of which means that all standard shotguns up to 12 gauge in power need *no* sights and that *all* shotguns from 12-gauge Magnum up in power are no more effective than standard 12 gauge *unless* scope sight equipped. Hence, the reason so many shooters fail to find the advantage of the Magnum's greater possibilities. The Magnums equipped with super chokes to be effective at long range throw half of their patterns in a dense center pattern at 40 yards. The rest of the pellets cover the usual three and a half foot circle. At 60 to 80 yards this central cluster fans out to a two or three foot killing pattern. The other half is a low, thin, scattered, deformed pellet, low velocity, stringy, wounding pattern. A ¼-inch error in eye position in the "cheeking" throws the central killing pattern clear off the target.

Finally all these arguments led to a challenge to compete in a sage hen hunt. The birds were abundant and, while not a difficult target, were full grown tenacious grouse, with heavy feathers and tough muscled bodies that weighed 6 to 8 pounds apiece, and measured 24 to 32 inches in length. Vernon brought 25 shells loaded with 4¼ drams of powder and 1¼ ounces of soft BB shot for his 10-gauge lever action. Mellie had 25 shells loaded with 2¾ drams of powder and ⅞ ounce of 7½ chilled shot for his 20-gauge double. I took 25 shells loaded with 3¼ drams of powder and 1⅛ ounces of chilled No. 6 shot for my 12-gauge pump.

The hunt started along the plains of the Buena Vista Valley when fall was waning and tints of gray were beginning to creep over the stately peaks of the Humboldt Range. The tan plumes of the sagebrush were drooping, while the cottonwoods in the canyons were shedding their yellow leaves into the rippled creeks beneath. By mid-afternoon, with our horses, my two pals and I were winding up an arroyo from the main valley almost to the foothills. *(Continued on page 34)*

BRIDGEPORT, CONN., MAR. 1943

Rifle Remgto

Possibles and Impossibles

by **FRANK J. KAHRS**

The other day we had a letter from an old-timer in California who applied for one of our "400" brassards. The interesting thing about his letter was that he had fired on the California State Rifle Team at Sea Girt in 1906. For approximately 32 years thereafter he had discontinued rifle shooting entirely. Then, when we brought out the Model 37 "Rangemaster," he decided to get back in the game and so at the Pacific Southwest Smallbore Shoot at Glendale, last November, over the DeWar course, he scored 400 25X's and won the match. He was shooting iron sights.

He winds up his letter by stating that lots of consistent practice has brought him to the point where he is shooting better than he ever has before in his life, and he attributes this to better guns and better ammunition.

He gives it as his opinion that real conscientious practice with proper equipment will develop anyone, regardless of age, into a good marksman.

We agree with him 100 per cent.

* * *

One of the most interesting and timely letters we have had was received from an Eastern shooter . . . a fellow we met at Perry in 1939, and who was at that time pretty green at the shooting game. He was as full of questions as a bag is of beans, but from his letter you can see that he has really come up, and has a few ideas that are worth repeating. We quote his letter in full:

"You would probably be interested to know that in spite of gasoline rationing and the ban on pleasure driving, our club is continuing as actively as ever—on foot. In fact, we have 10 new recruits who will develop into real 'bugs' with a little more experience. Of course, the ammo situation has made a difference and we can't shoot as much as we'd like to, but we do keep active and have spent many pleasant evenings with the boys around the old pot-belly stove arguing this and that.

"The club is doing a great job with the NRA Basic Training Plan, and I don't mind telling you that even an old-timer like myself has learned a lot through this program. At this point I'd like to say that a club can do itself and its sport a lot of good by pitching in on this program. In addition, it can really do a useful and patriotic service in teaching fellow-citizens to shoot.

"Of course, some of the boys got caught with no ammunition, while others of us who have always had the habit of stocking up on a particularly good lot of 'hot' stuff have a fair supply left. I think it speaks well for the sportsmanship of our shooters when they will 'divvy' up with their less fortunate brethren, as our members have. After all, it's no fun to spend a lonely evening down at the range by yourself, even if you are the only fellow who has any hulls.

"Thanks a lot for the brassard—it's taken me long enough to earn it, and I think I can be doubly proud of it, as the score was made with a borrowed Model 37 and the tail end of my precious stock of 'Palma Kleanbore.' But most of all, I think we can really be proud when the boys we are training qualify for a '400' brassard . . . then I'll think we have really accomplished something worthwhile."

* * *

In our opinion, this lad has two pretty good ideas that a lot of us should make use of.

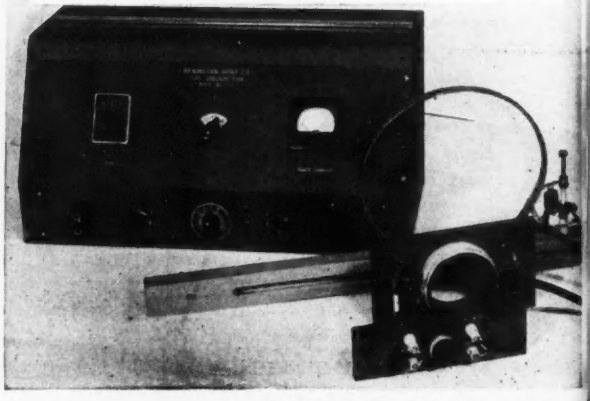
The NRA Basic Training Plan is really a dandy, and you and your club can perform a valuable service by getting right behind it and giving it all you've got. If you haven't the particulars, drop a line to the NRA. They'll be glad to give you all the dope.

ELECTRONICS MEASUREM

THE "INVISIBLE TARGET" IN ACTION

This remarkable high-speed photograph, taken in the Remington ballistic laboratories, shows a 50-caliber bullet passing through the "Coil Disjunctor" at the instant the impulse is transmitted to the electronically operated chronoscope. The bullet is speeding towards the target at approximately 30 miles a minute, and will group on the target with previous shots for accuracy measurement.

This device (below), developed by Remington's Research Division, has been made available to, and is now in use in, small arms ammunition Ordnance Plants all over the United States.



"PALMA" and "KLEANBORE" are reg. U. S. [illegible] by Re

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A PAPER FOR PEOPLE WHO SHOOT

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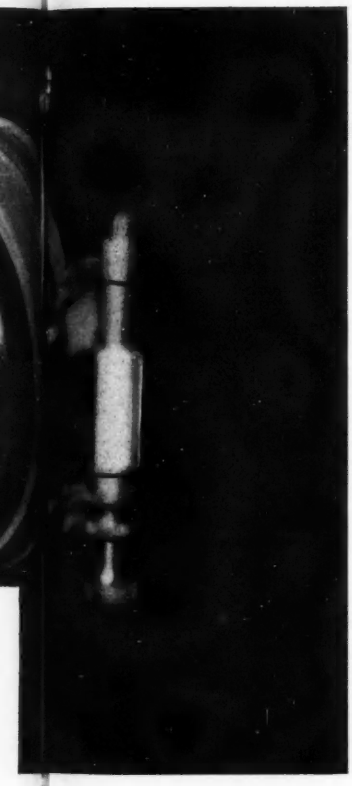


A question often asked by shooters is "How is the velocity of a bullet measured?"

Since the invention of the chronograph, this has been accomplished by the use of two electrical circuits which were broken by the passage of the bullet over the trajectory, and the time interval recorded by mechanical means on a scale which was converted to velocity readings. The first circuit was broken as the bullet struck copper wires strung across the muzzle of the gun. The second circuit was broken by means of a ball disjunctor resting on two electrodes and placed at the required distance in the trajectory so that the ball was upset by the bullet and the current broken.

This method, while relatively accurate, involved much loss of time in the resetting of the chronograph and stringing of the copper wire circuit breaker. Also, the bullets' true flight was impeded by the copper wires and ball disjunctor, making accuracy tests impossible.

New device utilizes radio frequency circuit to aid in measuring velocity

Now, an "Invisible Target" formed by a radio frequency electric field is used by ballistic engineers in clocking the flight of bullets over distances as short as ten feet. An exclusive Remington development, it is helping to assure the extreme uniformity of quality demanded in modern military ammunition.

Known as the "Coil Disjunctor," and using radio frequency circuits similar to those in ordinary home radios, the device delivers its signal with a maximum variation of ten millionths of a second. When a bullet is fired through coils connected with the radio frequency circuit, the metal of the bullet unbalances the circuit and produces an impulse which is transmitted to the electronically operated chronoscope, or velocity measuring instrument. The "Coil Disjunctor" delivers its impulse when the bullet, regardless of its shape, weight, or velocity, is within one quarter of an inch of the center of the coil and thus makes it possible to measure the velocities of 30- and 50-caliber bullets over short distances of ten or fifteen feet, even though their muzzle velocities are approximately a mile in *two seconds!*

Speed plus accuracy

The "Coil Disjunctor" may be moved to any point of the trajectory to measure the time of flight or mid-range velocity, and can also be utilized to obtain accurate barrel time readings. Differing from the old method utilizing copper wires, accuracy tests may also be run concurrently.

The measurement of velocity of bullets and shot charges is an essential test of all ammunition—whether sporting or military—and such tests are run regularly by Remington ballistic engineers as a constant check on the quality of the product.

The "Coil Disjunctor" is another Remington contribution toward the production of ever finer ammunition for our armed forces. After the war, this new device will again prove its worth to hunter and target shooter alike in a new and improved line of sporting firearms and ammunition.

THERE'S ONE IN EVERY CLUB - - - *The Shh! Guy*

U. S. by Remington Arms Co., Inc., Bridgeport, Conn.

In a mile or so the arroyo opened up into the main canyon of Jackson Creek and at this point we separated, one riding to the top of either bank of the arroyo and I continuing up the bottom. In a few minutes Vernon jumped an old sage cock. The cock was so big that he lumbered off like a prize turkey on the wing, with his long tail streaming out behind him, and if a planet had suddenly fallen on Vernon he would not have looked more surprised than when he missed him at a scant 40 yards. There was little time to reflect on the cause of the miss for another great bird roared up to the right.

Scarcely had he reloaded when, like a retreat of cavalry in gray uniform, a flock 200 yards long rose across the front. Though there were apparently a dozen right in line before him, yet at the crack of the gun only a single bird fell, and as the rest unharmed climbed the air with throbbing wings, he fired again and another bird parted from the flock with wavering flight, hung high in the air for a moment, then folding its wings descended with a thud to the top of some bushes a stone's throw away.

As the sun entered the home stretch, the number of birds increased by the minute. Most of those hitherto flushed were merely sentinels, but now we rode into the main flock fleeing on their way from the evening water. Long lines rose to the right and left, now thoroughly aroused by the booming guns, for already Mellie and I had gone across to the bunch which Vernon had scattered. Over the bluffs where the foothills began to rise, a single bird rode the last beams of the sinking sun.

In every direction the thoroughly alarmed birds sprang into action, only to alight again a few rods in advance. While I was gazing at the sight, almost unconscious of my purpose, two birds rose to my left; I turned the gun ahead of the foremost and at the report the rear bird fell through a mass of floating feathers, while the one I aimed at sped on across the plain unruffled. On both sides the roar of Mellie's and Vernon's guns resounded like the charge of the light brigade.

Hitherto the sage hens rose from fright, but now with rushing, tearing sound, as if rending with speed the canopy of heaven, up they sprang into the face of the night. Other sage hens lengthening their lines, descended slowly to their night cover.

Far above all these, crashing against the evening air, was the penetrating boom of the guns. And of the game descending there was more than enough for all.

Calling a halt we took stock of our trophies and found an even two dozen big birds between us. Mellie had five in his bag to show for his 25 shells, Vernon had eleven, and I had eight. Mounting our ponies, we headed for home, happy and carefree, reciting and arguing, far into the night, the incidents of the day. Along the way I remarked that I had used shells loaded with sixes, after much indecision between sixes and fours, and that if I had used fours on the big, heavy birds, that undoubtedly the results would have been quite different in that I would have been high man, and that anyway I knew better all along, but that—, when both Mellie and Vernon chimed up "Yeh, we know, but IT AIN'T NECESSARILY SO."

THEY ALL COME HOME TO ROOST

(Continued from page 30)

blind, picking it up only when crows are too thick for his companion to take care of.

If too many shooters share a blind you'll get few crows, unless every move has been carefully rehearsed. Ordinarily two guns are sufficient to repulse the attack of the leather-lunged brigands. Every extra man increases the probability that someone will move at the wrong moment, sending the birds winging desperately to safety. Too, the more shooters, the bulkier the blind will have to be. If four shooters must operate it is best to secrete them in two two-man blinds twenty or more yards apart.

The smaller the blind the less it will arouse the suspicions of the so-called "college" crows, who have been trained to be suspicious of any untoward disturbance in their roosting or nesting groves. Thus it is always wise to employ materials at hand in the construction of blinds instead of bringing in materials foreign to the surroundings. Unless you can fool college crows—at least occasionally—you're no crow hunter.

The experts never neglect some of the calling niceties. Assuming that you've sense enough to stay down in the blind, shooting just over the edge of it and showing only your head in so doing, *always* give a caw or two on your call before taking a second shot—unless you have to use a second shot on your first target. The calling need not be overly loud, but it must be continuous and rather long as to individual calls. Studiously avoid the short, staccato warning call with which all crow hunters are familiar. A litter of dead crows about the blind—especially in front—is a help instead of a hindrance, for the incomers have the happy faculty of hovering over their deceased relatives, mournfully cawing the while they make perfect targets.

Utilize any lull in the shooting to collect birds that have fallen at a distance. If left out there, incomers might hover over them until they become suspicious of the setup and come in cautiously to your call instead of the headlong abandon that marks a crow coming to the rescue. When the shoot is over, collect the dead birds and conceal them under leaves or brush, lest they repel crows that might otherwise continue using the roost. Don't ask me why; they just do.

Don't pile crows near your blind in a compact mass. Any large shape that wasn't there yesterday is an object of suspicion. Don't wedge tumbleweeds in the light flexible branches of a shrub where any vagrant breeze may move them. The wise crow knows that if that tumbleweed can be moved by the wind it would likely have been blown out of there weeks ago.

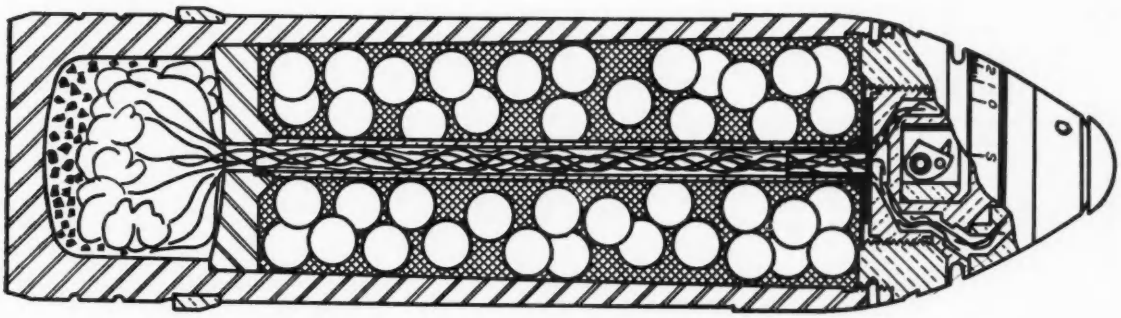
During the migrating season the turnover of personnel of the roosting flock is high. As a result, you're always shooting the members of a flock with a low average apprehension of danger who will come in readily to the skillfully used call. Don't become impatient if they don't mob you the moment your blind is built. In fine weather the birds string in leisurely; if the weather is blustery, wet or cold you can expect action as much as two hours earlier. Be patient. You can do a heap of shooting in a single hour of daylight and action is thickest as darkness closes down.

Never forget for a moment that a crow is smart enough to profit by your every mistake, no matter how slight. But as you make fewer of them you'll bag more crows, and learn a superlative sport.

MILITARY EXPLOSIVES

(Continued from page 28)

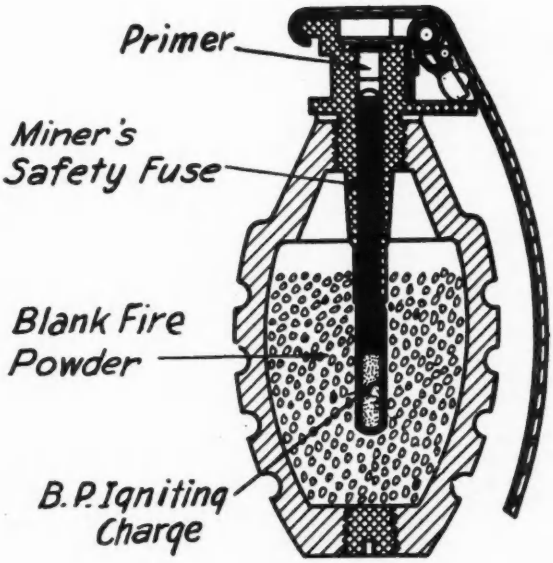
which they can be set for one or the other. The primer explosive is either the fulminate of mercury type or lead azide type. For the detonator explosive a combination of mercury fulminate, or lead azide with tetryl, is used. A pellet of black powder, interposed between the primer and detonator components, is used for the delay element. Last is the still larger charge of tetryl, known as the booster, which is necessary to properly detonate the main bursting charge of the shell, bomb, mine, etc.



EXPLOSIVE TRAIN CONTAINED IN SHRAPNEL PROJECTILE

FORMULAS FA70 AND FA90A

The standard military primer compounds for small arms ammunition and much artillery have been formulas FA70 and FA90A for many years. They were developed by the Ordnance Department shortly after World War I and both include potassium chlorate, stibnite and lead thiocyanate. The principal difference is that FA70 includes also a small percentage of TNT, which in FA90A is replaced with PETN. These compounds supersede fulminate to a large extent.



MERCURY FULMINATE

Fulminate of mercury was another explosive dependent upon a foreign raw material—mercury (quicksilver) from Spain. However, there were plenty of quicksilver mines in this country—needing only exploitation—which they got. To make fulminate of mercury, pure metallic mercury (quicksilver) is dissolved in nitric acid and this solution is then poured into ethyl alcohol to the accompaniment of a violent reaction and the evolution of enormous volumes of a poisonous gas. Usually a ten gallon glass flask is employed, and a one-pound charge of mercury. When the reaction subsides, about 1¼ pounds of the fulminate is found in crystal form in the bottom of the flask. This is kept wet until used. It is the most sensitive explosive used by the Army and is commonly employed to initiate the detonation of other high explosives.

LEAD AZIDE

While lead azide was introduced as a substitute for fulminate and is employed for detonating high explosives, it is too insensitive to be used alone where initiation is by a blow of a firing pin unless in the form of very fine crystals. It is said that a crystal 2mm. long can be detonated under water by rubbing it with a feather, but in fine crystalline form it is about as sensitive as mercury fulminate. Lead azide has come into use as a standard detonator replacing mercury fulminate for certain uses. It is much more readily detonated by flame than by shock or friction. To make lead azide, ammonia is treated with sodium to produce sodium amine which in turn is treated with nitrous oxide to obtain sodium azide. This latter is dissolved in water and then treated with lead acetate or lead nitrate, the resulting product being lead azide.

TETRYL

The manufacture of tetryl starts with benzene as a raw material, another coal tar product. This is nitrated to nitrobenzene, which is then converted to aniline and the aniline to dimethylaniline. As these products are largely used in the dye industry, tetryl manufacturers commonly start with dimethylaniline as a raw material. Tetryl results from the nitration of this product. This explosive is more sensitive to shock or friction than TNT and is readily exploded by the penetration of a rifle bullet. Tetryl is the standard booster charge. Compound detonators of tetryl lead azide and mercury fulminate are used.

POWDER SMOKE: READERS COMMENTS THE NEWS DESK

RE-LOADS . . .

WHERE CREDIT IS DUE

Editor:

I have read with some interest the article by Mr. J. B. Nealey in the January issue of THE AMERICAN RIFLEMAN entitled, "Military Explosives, Part 1—Propellants". It contains the following statement appearing on page 14:

> "Smokeless powder (nitrocellulose) was the chief propellant during World War I. Since then three major advances have been made by the Ordnance Department, with the assistance of civilian powder manufacturers, that put our gunpowder ahead of that of all other countries. First, the flash at the muzzle, which often blinded the gun crew and gave away their position to the enemy, has all but been eliminated; second, the moisture absorbing tendencies have been overcome, and third, stability of the composition, which obviates deterioration, has been attained."

To my mind, the above statement does not give the DuPont Company proper credit incident to the major advances therein referred to. By agreement, this company developed the improved powders and the Ordnance Department made the firings to prove the merit of the same. All the improvements in flashlessness, reduced hygroscopicity and improved stability are covered by U. S. patents granted to R. G. Woodbridge, Technical Director of the Military Explosives division of this company, to whom the patents were assigned. This company has given royalty-free licenses for the duration of the war and these improved powders are being made in enormous quantities at a number of plants without any charge to the Government, directly or indirectly, for the use of the patents covering the same.—*Theodore G. Joslin, Director, E. I. DuPont de Nemours & Co., Wilmington, Delaware.*

MILWAUKEE'S JIM CLARK

Editor:

February's RIFLEMAN has a letter from J. E. Moore, Minneapolis, Minnesota, which has aroused my interest inasmuch as we have a man here in Milwaukee who has done more to supply hunters with ammunition than any other individual in the States. Thousands of hunters can thank Jim Clark for their pet brand of ammunition for the 1942 season and more will be thankful for his farsightedness in the 1943 season. Jim has gained nation-wide publicity on his reloading program for the sportsmen. The Associated Press syndicated an article which you may have read.

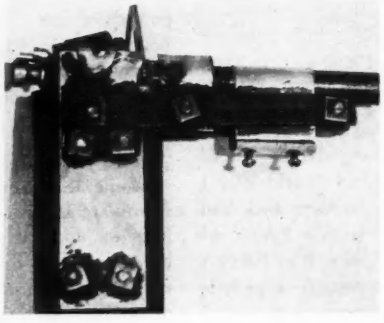
Jim is the fellow who has started the "Save Your Empties" program in our State. The idea caught on rapidly and now I understand that sportsmen are sending Jim their empty hulls from all parts of the country—as far north as Alaska and as far south as Texas. He has started a chain that will help alleviate the coming ammunition shortage.

I believe Clark should get some mention in the RIFLEMAN for his good job of helping the boys along with their ammunition problems. Oh, yes, Jim's a member, and he makes the most noise when some crackpot gets an anti-firearms complex. He's the kind of guy that gets up a petition when some screwball representative thinks that firearms are not meant for the citizenry. He is modest to the point that he would not call attention to himself for his efforts. The N.R.A. never had a better booster. The N.R.A. group of our city makes his sporting goods store their mecca. It would give me a great deal of pleasure to know that Jim's efforts would not go unnoticed, especially by an organization which receives his loyal support. I say this without reservation: That Jim Clark has done more than any other man in our city to promote shooting and the N.R.A. Ask the members in Milwaukee; they will bear me out.—*Ned F. Kailing, Milwaukee, Wis.*

PEN CRAFT

Editor:

I am enclosing a photograph of a "home-made" caliber .38 pistol which was made by the inmate of a penal institution. It was used in a break and wounded a man, almost fatally.—*Edward M. Wheeler, Lowell, Mass.*



A POINT FOR US

Editor:

I know you are always glad to hear when a fellow feels he has gotten something worthwhile from the National Rifle Association.

A few months ago I enlisted in the New York State Guard. Almost at once I was appointed as a marksmanship instructor. When it was my turn to fire on the range I used a rifle I had never fired before. The rifles (.22 cal.) were supposed to be sighted in correctly and we were allowed no sighting shots. I found it necessary to make three sight adjustments during the firing. In spite of all this I attained an almost perfect score, the highest in the regiment.

I take absolutely no credit for the above but pass it all on to the National Rifle Association and to THE AMERICAN RIFLEMAN, the organization that taught me almost all I know about guns and shooting. Anyone else could have done the same thing if they had read THE AMERICAN RIFLEMAN and put it to work for them. I cannot praise the efforts of the N. R. A. too highly. Any red blooded American could not help but be a better citizen by his association with the N.R.A.—*E. Witmer Schmiedendorf, Buffalo, N.Y.*

"IRON SIGHTS"

Editor:

I would like to correct a few statements made by Mr. Willis O. C. Ellis in his article "Iron Sights for the .22" in the January issue.

Mr. Ellis states that the Lyman No. 103 micrometer tang sight is the only one now made with both vertical and lateral micrometer adjustment, and at the bottom of page 35 is shown a picture of a tang peep sight labelled "No. 103". The sight illustrated is the Lyman No. 144; not the 103. They are somewhat similar except that the No. 144 has ¼ minute click adjustments for both elevation and windage, whereas the 103 has ½ minute click adjustments. The Lyman 144 originally was made for the Stevens 417 and 418 rifles but as this sight comes with two heights of stems, it can be attached to a wide variety of rifles. The screw holes in the base of the 144 sight are 1½ inches apart, center to center, and by drilling and tapping a new hole in the tang 1½ inches back from the front tang screw hole this sight can be attached to many rifles that it was not intended for. It is a very excellent little sight.

In addition to the Nos. 103 and 144 sights the new King No. 212 tang peep sight also is adjustable for both elevation and windage. This fits a variety of rifles. Lyman also makes two other sights that have vertical and lateral adjustments, although they are not micrometer adjustments. These are the Nos. 29½ and 30½ tang peeps which fit all calibers of Savage Model 99 rifles.

Mr. Ellis states that the Marble-Goss sights have elevation and windage adjustment by means of ⅛ minute micrometer clicks. All Marble-Goss sights have ¼ minute click adjustments although ⅛ minute moves are easily made. But there are no click notches at the ⅛ minute positions.

Mr. Ellis mentions the Merit Iris Shutter Disc. I agree that this is an excellent disc. He states that they will fit Lyman, Redfield, Marble-Goss and practically all other sights, but he also states that these discs will not fit Marble's tang peep sights unless you have a special stem made. This is not correct as Merit's standard disc No. 4-S fits all Marble tang peep sights, and it is not necessary to have a special stem made.

Mr. Ellis also states that in the medium price range the Lyman Nos. 17-A and 77 front sights are each supplied with eight inserts and one light filter, but as Lyman ran short of inserts some time ago they were supplying only five inserts, and recently they have been supplying only three inserts with each sight.

The article is excellent; I merely desire to correct the statements mentioned above.—*W. P. Klapp, Paoli, Pa.*

PESSIMISTIC OPTIMIST

Editor:

In reading the many articles concerning the movements that are always with us toward relieving the civilian of his firearms, I'm prone to believe that a lot of our well meaning Congressmen and others need plenty of enlightenment or, perhaps, just don't give a hoot.

An incident happened near here a few days ago that gives strong support to the owning of firearms by the civilian. Three interned Germans escaped from an internment camp near Roswell, New Mexico. They showed up at a ranch and were in the act of making off with one of the rancher's automobiles. This rancher knew of their escape; so when he saw these fellows he at once thought they might possibly be the three Germans from the internment camp. He got one of his guns and decided to see what he could do about it. In the action that followed he captured two of them and killed the third. He held the captured pair until relieved by the authorities. Things could have been a lot different had he been without firearms.

Another rancher finds a colt killed and half eaten. He knows the criminal, a panther. So he gets his dogs and goes to work. The result, one less panther to prey on his horses. To be sure, he could have appealed to proper authorities, but by the time some man allowed to have a gun got to the scene, more colts would have made a good breakfast for the panther, he might have moved out to other regions and done more damage. Calling for help that way would not be the American Way. We go out and do away with the menace in short order.

Another fellow finds a cow that has just had a calf. In inspecting the cow he finds her udder practically gone. He knows what to go after, a Lobo Wolf. Lobo Wolves are few, but they do come out of Mexico into this part of the country. I might add, they hardly ever go back. This problem is taken care of at once. How? Guns.

Pancho Villa came here in 1916. A fellow rode many miles to tell the troops stationed here that Villa was on his way. The commanding officer was sure he would not visit Columbus; not concerned enough to double the guard. Many civilians were not that sure. Villa came all right, and even if the soldiers were not ready many of the civilians were. By the time the officers got down to camp, unlocked the guns and organized, the civilians had driven Villa off, and there was a nice size grave to be dug to put those unlucky Mexicans into. If the civilians had not had their guns the situation would have been a lot different.

I could go on for hours relating happenings in defense of our guns, but I am an optimistic cuss. I believe our Congressmen are too wise to do anything as foolish as taking our guns away, or think very seriously about it. England's helpless bleat for guns from our American Sportsmen and men to help train shooters who had not had the pleasure of learning to shoot and handle firearms, should be a lesson in itself. I hope our Congressmen were awake to the situation. *All* of our men going to the service are not strangers to firearms though some are, I'm sorry to say.—*Leon P. Fisher, Columbus, New Mexico.*

EVILS OF BIDDING

Editor:

Congratulations on your new policy of not accepting any more of the auction ads. It is this same bidding up prices that has put the arms market in the state it is in today. Throughout all our lists we have stressed the point of buying and selling at reasonable prices, at prices the average sportsman can pay, and now in an indirect way you are backing us up. Again congratulations.—*Frank Pierce, Derryhoyle House, Natick, Mass.*

MID-WESTERN ARMORER

Editor:

At 64 years of age I am still a gun "crank". Call it a hobby if you wish, but whatever you name it, it is now paying off in two ways. As armorer in one of the mid-west Ordnance plants my knowledge of guns and their ways is helping me do my bit for Uncle Sam; and, too, I am being well paid for the work I do. And not least, I am finding a fund of information in back issues of the RIFLEMAN.

This information is of real value, not only to me but to many others in my unit. My back copies of the RIFLEMAN are almost worn out by constant use and I find that a great many persons who have never heard of THE AMERICAN RIFLEMAN or the National Rifle Association are continually asking me for copies.

I believe if the Ballistics Department of each unit now operating in the United States could have several copies of THE AMERICAN RIFLEMAN each month it would go far toward increasing the support to the National Rifle Association. Persons who are now working in these units are gun conscious and the N.R.A. will appeal to them now, even though they may not have given it a thought in peacetime.—*Orin N. Fisher, Eau Claire, Wis.*

AUSSIE WOMEN, TOO

Somewhere in Australia

Editor:

Am using this ambiguous address for a reason. It is a little shooting match that may be of interest. The U.S.A. officer of the team did not want its location made public. So, somewhere in Australia a party from one of the U.S.A. Engineering units found time for a twelve-a-side shoot over 75 yards against a team of Australian Markswomen and was beaten—921 to 904. There was a full-points card of 80 on each side. The scores:

Australian Ladies		*U. S. A.*	
Mrs. Harding	80	Cpl. Bivans	80
Miss Exell	79	S. Sgt. Acrivos	78
Miss Godfrey	79	Cpl. Junghanns	77
Miss Rennie	79	Pvt. Kitka	77
Mrs. Munro	79	Pvt. Morrison	77
Miss Fraser	78	Sgt. Morrow	76
Miss R. Lewis	77	Pvt. Hirsh	76
Miss L. Lewis	75	S. Sgt. Tradl	76
Mrs. Guest	75	P. F. C. Jordan	74
Mrs. Wisbey	74	Cpl. Zavracky	72
Mrs. Young	73	Cpl. Cepleca	71
Mrs. Wallen	73	S. Sgt. Fairfield	70
Total	921	Total	904

It was some relaxation for our American friends who had been introduced through the agency of a full-bore and small-bore shot. I may add that the visitors had to use strange rifles, though first-class weapons.—*R. Courtis.*

WHEN I COME HOME

Editor:

I want to tell you that you have my wholehearted support in your advocacy of small-arms training for soldiers.

Doesn't that sound like a damn silly idea? And yet, hundreds of men are going overseas without even the rudiments of marksmanship. Sure they're specialists, but a specialist—a radio operator, or a mechanic, or a clerk—can pull a trigger. And may *have* to—we can't always count on having the PBI to tuck us into our little bomb-proofs when the shooting starts.

Also, keep on plugging against any gun registration laws. I'm a long ways from home now and going farther very shortly, but I don't want to come home and find any new "Sullivan" laws. So keep up the good work!—*S/Sgt. J. A. Morrisey, % Postmaster, New York, New York.*

GAR AS IN . . .

Editor:

Kindly check and return this sheet showing the correct pronunciation of the new rifle:

Garand—*Gar* as in garrison .....(—)
Garand—*Gar* as in garner .....(—)
Garand—*Gar* as in (?) .....

—G. G. Hill, Director, Department of Business Education, State Teachers College, Indiana, Pa.

Glad you brought it up, we've heard everything from Garland to Garamound. Your top selection—Gar as in garrison—is correct, but accent the second syllable. Thus: Gär-and'.—ED.

COMMENDABLE

Editor:

Your action in stopping the "Highest bidder" ads in the Arms Chest is commendable.—*1st Lt. Paul R. Elder, Springfield, Ill.*

HELP WANTED

We have repeatedly said that small arms marksmanship training in the Army today is at a dangerously low ebb. No better proof could be found than a letter just received from a member of the Association who is at this time commanding a Signal Corps Detachment on the east coast not far from Washington. This letter reads in part as follows:

"I am in command of this Detachment which, at the present time, is equipped with arms no smaller than the .45 Caliber Automatic Pistol. However, in the future we shall be supplied with rifles. Pending delivery of these rifles, marksmanship and general training would be greatly facilitated if the men were trained in the handling of .22 caliber Springfield Rifles or other small bore rifles.

"As our finances are rather limited, it is a virtual impossibility to obtain any of the aforementioned rifles or pay for a charter to form a club affiliated with the N.R.A. We would appreciate it if you would deem it possible to send us any small bore rifles, such as the .22 caliber Springfield, that you might have available, together with the necessary ammunition."

The Association, of course, has no rifles available for issue. If any member of the Association has a used .22 caliber rifle equipped with sling and sights suitable for military training that he is willing to lend or donate to this officer for the preliminary training of his unit in rifle marksmanship, please advise National Headquarters. Headquarters will furnish shipping instructions and arrange for the donor to establish direct contact with the officer in question.

Here is another opportunity to render immediate personal assistance to some of our men in uniform in a position where they are supposed to be guarding our coasts against invasion.

AMMUNITION FOR CLUBS

I. While club officers are doubtless familiar with the Special Bulletin issued in August, 1942, regarding the efforts made by the Association to secure ammunition for its clubs, it seems worthwhile for the benefit of all members to repeat the information previously published and bring our report of the situation up to date.

II. The present arrangements are the result of the numerous steps outlined below—

(A) When it became known that the manufacture of commercial ammunition was to be discontinued, the Association first approached various ammunition manufacturers to set aside a quantity of .22 ammunition to be sold to N. R. A. clubs through regular jobbing and retail channels on orders approved by National Headquarters. This simple, practical plan was killed by a statement from the Department of Justice warning that such an arrangement would be in violation of the Sherman Anti-Trust Act.

(B) Our next effort was to have ammunition purchased by the Defense Supplies Corporation and sold through regular jobbing and retail channels on orders approved by the War Production Board. This plan was not adopted, because—(1) the total quantity involved was so small that if all the dealers in the country were given equal allotments each of them would have only four *cartons,* and if distribution were limited to jobbers each would have had only four cases, and the multitude of small shipments and small accounts of this kind could not be handled by the overworked shipping departments of the arms manufacturers or of the Government Arsenals. (2) Neither dealers nor jobbers were willing to handle such small quantities under the restrictions imposed as to limited sales to N. R. A. clubs after approval by the W. P. B. (3) Efforts to get the jobbers, through their trade association, to select certain jobbers as distributing points (so as to make it possible to ship in carload lots from the plants or arsenals) were unsuccessful.

(C) The Association then tried to have the Ordnance Department store and ship munitions direct from Government Arsenals (as had been done in the case of D. C. M. ammunition during peacetime). This effort was unsuccessful because in wartime the Arsenals were unable to handle small shipments to 3,000 scattered civilian clubs.

(D) It was then suggested that the Defense Supplies Corporation establish regional warehouses and ship the ammunition either through dealers and jobbers or direct to the clubs. This was rejected by the D. S. C. because of the paper work involved and because the expense of leasing warehouses suitable for ammunition storage, paying guards and shipping clerks would raise the delivered cost of the ammunition to a higher figure than the existing retail price of $6.78 per thousand rounds.

III. These fruitless negotiations involved Association officials in conferences with the Department of Justice, Federal Trade Commission, War Production Board, Defense Supplies Corporation and Ordnance Department (plus additional conversations with ammunition manufacturers, jobbers and dealers; insurance companies, warehouse men and freight agents) for over six months. Meanwhile ammunition became harder and harder to purchase through the usual channels. Clubs desiring to purchase ammunition in case lots were unable to do so. Individual club members or students in small arms firing schools could buy 50 to 500 rounds at prices which ranged from 35 cents to as high as 75 cents a box of fifty rounds.

IV. During the first week in July, 1942, over 500 summer camps opened, equipped with rifle ranges and having rifle instructors approved by the N. R. A. Among the campers were several thousand boys who would soon be in uniform and who wanted basic small arms instruction. The Association learned that it would be possible to obtain 200 cases of ammunition at once from the stocks held by the Ordnance Department for the account of the Defense Supplies Corporation at an eastern ammunition depot. *The entire shipment must be as a carload lot to one destination.* Neither the Ordnance Department nor the Defense Supplies Corporation was able to say what the price would be. The N. R. A. must make all arrangements to finance the shipment, warehouse it, insure it, properly guard it, ship only to clubs conducting a small arms instruction program and collect from such clubs. The Association had neither the warehousing and shipping facilities to handle the ammunition nor the right to obligate Association funds in a transaction on which no cost figures would be available until after the ammunition had been sold. One solution presented itself. The National Litho Company had for more than a decade been under contract to the Association as a supplier of official targets manufactured and distributed under regulations established by the N. R. A. This Company was not engaged in the ammunition business so that no one could rightfully claim that the N. R. A. or D. S. C. had favored one ammunition dealer over another. The Defense Supplies Corporation approved the handling of this lot by the National Litho Company. The ammunition was received within about two weeks and immediately reshipped so that slightly over 400 camps out of 526 were finally able to conduct small arms firing schools.

N. R. A. BASIC TRAINING PROGRAM

341 Schools Approved

2284 Attendance Certificates

equals

1 Regiment plus 1 Company

Report Your Graduates Promptly

V. Meanwhile an effort was continued to solve the larger problem of the senior civilian clubs. The ammunition jobbers and Defense Supplies Corporation were still unable to arrive at any distribution system satisfactory to them. The War Production Board desired to issue one priority order to the Association instead of having to investigate each order from widely scattered clubs. It was believed that the system employed in the summer camp emergency was excellent and should be continued if possible. The Defense Supplies Corporation agreed. Additional distribution points other than Washington were, however, desirable. Distributors must agree to finance, warehouse, insure and guard not less than a minimum carload f .22 ammunition, to be paid for in advance of delivery. They must comply with the regulations limiting distribution only to customers approved by the War Production Board and Defense Supplies Corporation. The National Rifle Association must check all orders and certify that the club purchaser was conducting an approved program of instruction, qualification and local competition. The orders must then be finally approved by the Director of Civilian Marksmanship and transmitted to the distributors.

VI. A number of additional distributors who conducted nationwide or regional target shooting supply businesses were contacted in August, 1942. Only two additional, Thurman Randle, Incorporated, at Dallas, Texas, and Wisler-Western, at San Francisco, indicated at that time that they were interested in view of the restricted sales policy (which would involve slow turnover with accumulating storage, insurance and financing charges), the large storage space required, and the large cash-in-advance payments of many thousands of dollars.

VII. The Defense Supplies Corporation accordingly contracted with these three distributors and the National Rifle Association to handle the consignment which is now furnishing ammunition to keep both senior and junior clubs functioning. In addition to the general conditions above mentioned, the contract specifies that the cost of the ammunition shall include (in addition to the overhead charged by the Ordnance Department and the Government excise tax) an overhead charge of 3% to the Defense Supplies Corporation and a reasonable charge for overhead to the Association. Considering all costs which must be paid by the distributor, the Defense Supplies Corporation agreed that a price of $5.95 per thousand (12% or $8.30 per case less than the ceiling price) was fair and reasonable.

VIII. Under the terms of the contracts the ammunition was to be shipped from Ordnance Depots closest to each distributor. Because unexpected demands from the armed services exhausted .22 ammunition stocks at the depot nearest San Francisco, the shipment for Wisler-Western was made from an east-coast depot, which introduced a large and totally unexpected freight bill as an additional cost item on the shipment. Both the Defense Supplies Corporation and Wisler-Western refused to pay this added cost. The National Rifle Association assumed this burden and other nonpredictable risks, and was accordingly permitted to retain an overhead charge of $3.50 per case until these extra expenses should be recovered, after which the Association's overhead was to be reduced to $1.50 per case.

IX. A considerable number of senior clubs had forwarded orders accompanied by checks for $67.80 at the time the announcement was made that ammunition would be available to the summer camps. When the additional

ammunition became available for senior clubs these orders were filled at the new price of $59.50 and refunds or credits for $8.30 issued by the Association to all of these clubs.

X. The excess costs incurred through no fault of the Association have now been recovered. Therefore effective February 1st, the amount to be received by the Association to cover its overhead expenses in handling this undertaking is $1.50 per case. Effective the same date the price of the ammunition to N. R. A. clubs is reduced to $5.75 per thousand ($57.50 per case of 10,000 rounds).

XI. The distributors handling this ammunition are realizing much less than the normal profit for the following reasons—

(A) The initial cost is higher than the price normally paid by a jobber to a manufacturer because of the charges added for overhead by the Ordnance Department, the Defense Supplies Corporation and the N. R. A.

(B) The carrying charges are much higher than those normally incurred by a jobber because this ammunition had to be paid for in advance of shipment. Normally the long term credit arrangements in the trade make it possible for the jobber to sell a considerable portion of the ammunition before he has to pay the manufacturer. Further, the jobber and dealer normally turn over their stock of ammunition twice to four times a year. This ammunition for N. R. A. clubs will be turned over only about once in twelve to fifteen months. Every business man will realize how drastically profits are reduced by such slow turnover.

XII. A very much larger quantity of ammunition than that allocated to the N. R. A. has recently been placed in the hands of a group of jobbers selected by the W. P. B. and D. S. C. for sale to police, plant guards and similar interior security units and to farmers and game keepers for predatory and rodent control. This is a very much larger market than the rifle club market to which N. R. A. distributors are limited. Purchasers are finding that the amount of ammunition they *order* is not the amount they get. The order is sent to W. P. B. for approval and W. P. B. tells the distributor what proportion of the amount ordered may be delivered to the customer. Already several distributors have asked the Defense Supplies Corporation to relieve them from their agreements to handle this ammunition because the business is unprofitable.

XIII. Under the arrangements worked out for N. R. A. clubs they are able to obtain whatever amount of ammunition their program warrants. The club places the order, the N. R. A. handles the red tape. The Association receives $1.50 per case to cover its costs. It receives no profit from the sale of ammunition. For the reasons stated it is believed that the existing arrangements for the distribution of ammunition to N. R. A. clubs are the best now possible. "Business as usual" during war times is clearly impossible but the association has done and is doing all it can to assist its members in a difficult situation. Whenever better terms can be arranged, when more ammunition can be made available with less red tape, members will be notified and members will get the benefit.

PLEASE EXCUSE US!

Here at headquarters we like to receive friendly, chatty letters from our friends all over the country. They keep us abreast of the hundred and one interesting things that are happening to shooters everywhere and form the background for so much of the Association's activities. Normally we enjoy replying to these letters and often "egg on" our correspondents to write more often.

We *still* enjoy and value those letters. We hope they will continue to come in.

But we are trying to keep the wheels turning during America's bitterest war with only half our peacetime staff. We have to spend more time than ever in contacts with Government agencies. The "48 hour week" means nothing to us because we have been working 64 to 70 hours so long we wonder if the movies are still open.

We are glad to do it because we know that the N. R. A. is contributing a whale of a lot to the winning of this war. However—and here is the unfortunate part of it—we just cannot find the time to answer or even to acknowledge a lot of the friendly letters we receive. Unless a letter really *needs* an answer to keep the game rolling along we have to read it, tuck the information away in our minds and tuck the letter into our files.

We know our members will understand and will excuse us if we seem to disregard an occasional letter that doesn't really *need* an answer.

Sincerely yours,
C. B. LISTER.
Secretary-Treasurer.

A TENDERFOOT'S GUN

From The Louisville Dispatch as reprinted in the New York Weekly Tribune, Wednesday, December 1, 1897

"Northern men were scarce in Texas in 1879," said the Chicago man, who was afterward a Texas ranger, "and not particularly well liked by the native Texans, as they called themselves. When I left Chicago for Texas I had provided myself with a formidable weapon in the form of a .22-calibre revolver, and had no doubt that I would be able to cope with the most bloodthirsty adversaries. Arriving at my destination, I soon began to form acquaintances among the citizens of the city in which I had taken up my temporary residence.

"Strolling into the palatial saloon known as the Glass Front one evening soon after my arrival, I met a number of cowboys and deputy sheriffs, and the conversation drifted to the subject of guns, as shooting weapons are called in Texas. By the way, in Texas at the time I speak of the only persons legally entitled to carry weapons were sheriffs, marshals and their deputies, and rangers, and every bad man who wanted to shoot somebody would generally have influence enough to get appointed as a deputy of some kind or other. The most reputable portion of the population was therefore debarred from carrying weapons, and was therefore at the mercy of any licensed thug. As I said before, the subject of conversation was guns, and with considerable pride I displayed my silver-mounted and ivory-handled pistol and asked for an opinion as to its merits. The gun was passed from hand to hand, each grizzled deputy looking at it with the greatest curiosity.

"'What do you call that, my son?' asked a bewhiskered ruffian at the extreme end of the bar.

"'That is a revolver, my friend,' I answered, 'and one of the best makes in the country.'

"'But what do you do with it?' he then asked.

"'I have never used it, sir,' I answered, 'but if necessary I have no doubt I could defend myself and do some little execution.'

"'I'll tell you what, my lad,' said the representative of the law, 'I'll stand up here and let you shoot at me all night for four bits a shot.'

"'I have no cause to shoot at you,' said I, 'and do not care to get in any trouble.'

"'You needn't be afraid, young feller,' said the deputy; 'no popgun like that is ever going to hurt me.'

"'Give me back my revolver,' said I, 'and I will go.'

"'I think I'll try it anyway,' said the desperado, and, taking deliberate aim at me, he shot me through the arm with my own pistol. I fell against the bar, pale and terrified. Then the whole gang began to laugh. One of them bound up my arm with a handkerchief, and they insisted that I drink with them. As soon as I could escape from my tormentors I hastened back to the hotel and summoned a doctor. He pronounced my injury only a slight flesh wound. The next day I was arrested by the deputy who had shot me, brought before a magistrate and fined $50 and costs for carrying a weapon."

JAP BOOMERANG

The "Emperor's Cup", which Major J. E. Snow, USMC, Chief Range Officer at Camp Matthews Rifle Range, San Diego, Calif., won in a Japanese shooting contest at Tientsin, China, in 1928, will be given back to the Japs in the form of good hard bullets.

The cup was won in a Jap-sponsored competition involving 12-gauge shotguns, in which the Japanese army had entered its five best.

To give the meet an international flavor the Japs invited three Marine officers to compete, although the sponsors openly boasted that the Americans didn't have a chance. Marine officers in addition to Captain Snow were Captains (now Colonels) W. G. Farrell and W. J. Wallace.

The Japs chose to make the competition straight trap shooting of clay birds, which was to Captain Snow's liking as he is an expert trapshooter.

When the shooting was over, Captain Snow had won top honors, scoring 96 points out of a possible 100, seven points better than his nearest Jap competitor.

There was great loss of face and consternation among the Nipponese. It would be rank heresy to give the Emperor's Cup, a silver loving cup standing three feet high, to an American. After searching in the rule book, one of the referees stated, with sincere regrets, "that it would be impossible to give Captain Snow the Emperor's Cup and would he please accept, instead, the smaller cup, properly inscribed, and a special prize of a Browning Automatic shotgun?"

For years this Japanese trick has rankled Major Snow. Now that the government is making a roundup of scrap metal to be made into bullets, he has decided that this would be a fitting and proper fate for the phony Jap trophy.

And so to the scrap metal drive goes the cup, still bearing the flowery inscription in

Japanese, which translated states—"The Emperor's Trophy, won in the 3rd year of Showa in a big Summer shooting competition held by the Association of the Heavenly Port . . ."

WOMEN MARINES

The Marine Corps has gone co-educational. (Smile if you say feminine, bud). The Corps announced establishment of a Women's Reserve to be called—Marines. (What, no Marinettes?)

Nation-wide enrollment of women between 20 and 50 as officer candidates and 20 and 36 as enlisted personnel began immediately under newly-appointed director, Major Ruth Cheney Streeter.

The Gal Leathernecks (won't they love that!) are to be trained at major women's colleges throughout the country, later will be assigned to Marine Corps training centers, posts and stations to replace men fitted for active service with fighting units. By law, Women Reserves will serve only within the continental United States.

Rank and pay of both commissioned officers and enlisted personnel are the same as those for men of the Corps, and it will be possible for women to work their way up through the enlisted ranks and into the commissioned grades.

Applicants for officer commissions must have college degree or two years of college and two years' business experience, or special qualifications in a particular field. Enlisted personnel must be between 20 and 36, have at least two years of high school or business school education, or special qualifications. Both married and unmarried women are eligible, but no married woman with children under 18 will be accepted and no woman married to a Marine can serve.

The duties will be varied and many, including administrative, clerical, stenographic, photographic, laboratory, aerographic, aircraft mechanic, parachute rigging assignments. But Major Streeter stressed that applicants need not have specialized training to volunteer. The Corps, she said, "desires women of high caliber who can be trained for their duties after they are enlisted".

Women wanting to enlist are directed to apply to the nearest Office of Naval and Marine Officer Procurement, or Marine Recruiting Station, stating their age, educational record, occupational and marital status.

STOLEN GUNS

Colt Automatic Pistol, Caliber .45, National Match grade, Serial No. C185472. Stolen December, 1942 from Officers' Quarters, Lowry Field. Notify Provost Marshal, Lowry Field, Colo.

CHALLENGES

The "Bergen Rangerettes" desire competition with other women's teams. Conditions: five girl team, 20 shots prone at 75 feet, targets to be exchanged—or what have you? Address M. H. Keith, Secretary, Bergen Rangers Rifle and Pistol Club, Inc., 17 Cottage Place, Leonia, N. J.

The East Liverpool Rifle Club desires prone or four position gallery, any sight matches, five high of ten shooters to count. Address David Fugate, General Delivery, East Liverpool, Ohio.

BOOKS AND MANUALS

MANUALS—For Better Training

Basic Small Arms Instruction	$.25
The ABC of Practical Pistol Instruction	.25
The ABC of Practical Riot Gun Instruction	.25
Practical Home Guard Organization	.25
Practical Organization of Industrial Plant Defense	.25
ABC of Pistol Shooting (advanced pistol)	.25
From Tyro to Master (advanced small-bore and gallery)	.25

BOOKS—To Interest All Shooters

Automatic Arms—Johnson-Haven	$5.00
Automatic Pistol Marksmanship—Reichenbach	1.50
Big Game Hunting and Marksmanship—Lee	2.00
Big Game Rifles and Cartridges—Keith	1.50
Book of the Springfield—Crossman	4.00
Bombs & Bombing—Ley	1.25
Civil Air Defense—Prentiss	2.75
Civilian Defense of the U. S.—Dupuy-Carter	2.50
*Company Duties	.25
Complete Guide to Handloading—Sharpe	7.50
*Complete Tactics Infantry Rifle Battalion	.75
Elementary Gunsmithing—Frazer	2.00
Encyclopedia of American Hand Arms—Chinn-Hardin	8.00
English Pistols and Revolvers—George	4.00
Essentials of Infantry Training	1.00
Fast and Fancy Revolver Shooting—McGivern	3.00
Guerilla Warfare—Levy	.25
*How the Jap Army Fights	.25
*Infantry in Battle	3.00
Map & Aerial Photo Reading	1.00
Modern Shotguns and Loads—Askins	4.00
New Infantry Drill Regulations	.50
New Soldiers Handbook	.25
*New Ways of War—Wintringham	.25
Personal Finance & Management for the Army Officer—Col. Hutchinson	1.50
*Shells and Shooting—Ley	2.00
*Skilled Defense—Mitchell	4.00
*Spectre of Sabotage—Matthews	3.00
State Defense Force Manual	1.00
Textbook of Firearms Investigation, Identification & Evidence—Hatcher	7.50
Textbook of Pistols & Revolvers—Hatch	4.25
*The Bullet's Flight—Mann	6.00
*The Ducks, Geese and Swans of North America	4.50
The Hunting Rifle—Whelen	4.75
The Officers Guide	2.50
The Old Sergeants Conferences	.50
What's That Plane?—Pitkin	.25

All books are sent postpaid and with return privilege to members

**** This indicates new books or books recently listed***

NATIONAL RIFLE ASSOCIATION

SCOTT CIRCLE **WASHINGTON, D. C.**

DOPE BAG ☆ ☆ ☆ Conducted by F. C. NESS

THIS MONTH:

.44 Special · .38 W.C.F. and .44 W.C.F. · Dean On Speed Bullets · Bullet Designs · Aluminum Tails · .38-40 and .44-40 · .38-72 · .401 Self Loading · .405 Winchester · .400 Whelen · .400 Niedner · Other Forties · 10.75-mm. Mauser · .44 and .45 Sharps · Jap Bullets · Letters · Trade Dope.

.44 Special. Excluding the .38-40 and .44-40 rifle calibers whose low-pressure cartridges are sometimes used in Colt S.A. and N.S. revolvers, the big three of handgun cartridges is represented by that important trio, the .357 S. & W. Magnum, the .45 Colt and the .44 Special. The latter is well liked for handloading by outdoorsmen and game shooters. The other two are successfully used for the very same purpose.

Near the end of 1938, J. W. Landon had completed his long-range tests with the .44 Special. He used a 12-inch bull at 200 yards. After firing 4000 rounds that summer, he said, in November 1938, he could put 5 x 6 shots in that bull from body rest. His best groups were about 7 inches, or inside the 7-ring. The bullets used were: Modern-Bond D-429, Ideal 429336 and Belding & Mull 429205. While they gave equal accuracy at 200 yards, the Ideal bullet developed greater energy and power. Gordon Boser's findings about this bullet, No. 429336, agreed with Landon's. The latter used this bullet sized .431 in his Smith & Wesson revolver. The ballistic data with Hercules Unique powder is as follows:

Charge	*M.V*	*Pressure*
6 grs.	760 f.-s.	13,000 lbs.
9 "	1030 "	17,000 "
10.2 "	1105 "	20,000 "

Landon developed only a little play in the cylinder of his .44 Special revolver after firing 20,000 rounds, 50% of which were heavy loads which developed above the normal maximum working limit of 15,000 pounds. A few extreme loads were also fired in cut-down .405 Winchester rifle cases at very high pressures. Landon had some enlarged primer pockets from heavy loads while he was using W.R.A. No. 111 primers. He changed to the slightly "milder or tougher" R.A. No. 2½ primers as a consequence. In all this shooting he had only one good group at 300 yards and but two at 200 yards. In the spring of 1940 he started out with greater success, getting 19 x 25 hits on a fifty-pound lard can at 200 yards. The load was 7.5 grains Pistol Powder No. 5 and the B. & M., 200-grain, blunt-nose bullet, No. 429205.

Landon used a special alkaline lubricating wax on his bullets and had no leading from his heavy loads in this gun or in his second (1926) model, except with Unique powder. We tried this lubricant and found it was very sticky, but it worked as well as several others we had adopted as satisfactory. He got the dope from the U. S. Bureau of Standards. In place of the heaviest loads of Unique, Landon finally used a duplex load of 4.5 grains Bullseye and a waxed paper separator with 7.0 grains of No. 2400 on top, in connection with the B. & M. 200-grain bullet. A straight load of 22 grains No. 2400 put this bullet through a 10-inch telegraph pole. This was in 1941, when his target load was 4 grains of Bullseye and the standard 246-grain factory bullet. Using this load and Landon's old .44 revolver members of the Pennsylvania Police Team obtained excellent offhand scores at 50 yards on the S.A. target, according to Landon, the lowest being 90 x 100 and the highest, 97 x 100. The velocity of this load is about 770 f.-s. m.v.

Landon tried S.R. No. 4759 powder and liked it, in case-full charges ignited with the R.A. No. 2½ primer. He did not try it with the W.R.A. No. 111 primer which is about the same in effect as the W.C. Co. No. 7 primer. He judged the full-load power of No. 4759 powder to lie between that of No. 5 and Unique powders in the .44 Special. With a case loaded to the base of the B. & M. 200-grain bullet he believed the m.v. obtained to be about 1100 f.-s. He estimated the velocity of his duplex load to be 1200 f.-s. at 17,000 pounds pressure. Other loads used by Landon were 6 grains of No. 6 for 200 yards and 4.5 grain of Bullseye for midrange targets. With all loads he used R.A. No. 2½ primers because the other two brands showed greater pressures by flowing back and flattening with heavy loads. Another load with the B. & M. bullet is 10.5 grains Unique, or 17 grains Sharpshooter. With the Ideal bullet, No. 429336, the same load of Sharpshooter and 8.5 grains of Unique were used by Landon.

Finally, we borrowed Landon's old Smith & Wesson Military Model revolver in .44 Special caliber. This model has a bigger cylinder (by .035 inch) than that of the Colt with which it was compared. We also got some of Landon's primers and B. & M. 429205 bullets. In the same loads the W.R.A. No. 111 primers flattened more than the No. 2½ R.A., but caused no greater expansion of the case, except in duplex loads, and we could note no difference in accuracy. Sample duplex loads loaded and supplied by Landon would not group for us when his revolver was tried at 50 yards and 100 yards in our Potter machine rest, at 50 yards the very best being 10 shots in 7.38 inches. The only other fair group we got with it was five shots in 5.08 inches at 50 yards fired from body rest.

Our poorest handload with the B. & M. bullet was 6.5 grains No. 6 powder. This would not group when fired from the Potter rest. From body rest we got five shots in 7 inches at 50 yards, which was the very best obtained with that load. The Remington 246-grain factory loads and our other handloads performed fairly well. All the offhand groups were just over 5 inches at 25 yards, and they averaged 11½ inches spread per 10-shot string at 50 yards. From body rest the factory load put 10 shots in 5.70 inches at 50 yards. From the Potter machine rest its 10-shot groups at 50 yards ran: 3.00, 2.77 and 3.55 inches, or about the same as the .357 Magnum. At 100 yards this factory load put 10 shots in 5.65 inches from the Potter rest, which equalled the 50-yard body-rest and the 25-yard offhand groups.

Our best straight load was 4.5 grains Bullseye with the B. & M. bullet. From the Potter rest this put 10 shots in 6.35 inches at 50 yards and made 10-shot groups of 11.12 and 13.62 inches at 100 yards. The next best straight load was 7.5 grains of No. 5 powder which put ten in 4.70 inches at 50 yards and 5 shots in 15 inches at 100 yards. Our duplex load was best of all. This was 4.0 grains Bullseye next to the primer followed by a separator disc (cut from a cellophane canister wrapper with a 12-gauge wadcutter) and 7.0 grains of No. 2400. All the loads performed the same at 25 yards offhand, but the duplex load put its 10 shots in 3.48 inches at 50 yards from the Potter rest. At 100 yards it made 10-shot groups of 11.75 and 15.00 inches. At this range Landon's duplex load got only 3 shots in a 38-inch area, although it had put all ten in 7.38 inches at 50 yards.

For comparison, we fired the O.M. Colt .22. The 10-shot groups ran from 3.05 to 5.07 inches at 100 yards from Potter rest, and 3.27 to 3.37 inches from body rest at 50 yards. The .45 A.C.P. with Hensley 207-grain wadcutter and 4.9 grains No. 5 made 10-shot groups of 3.40 to 3.98 inches at 50 yards from body rest, and the .357 S. & W. Magnum with two different full loads gave 100-yard 10-shot groups of 5.68 to 8.12 inches from the Potter rest. The smaller group contained 11 shots. In the .45 Colt revolver some of the heaviest handloads we have fired, have grouped within 4 inches at 50 yards from the Potter rest. Lighter loads, at the factory level of the .45 Colt and .44 Special, have given us smaller groups, or in the neighborhood of 2 inches per 10 shots.

* * *

High Velocity Projectiles. In recent years we find an ever increasing number of super-velocity cartridges being designed by the so-called "Wildcat" experimentors. Some have been taken up by the factories and we now can buy rifles with muzzle velocities of three and four thousand feet per second. Such rifles show a very high degree of accuracy and their projectiles are less affected by wind and gravity due to their intense speed.

The "Wildcatters" have gone still further in their search for the ultimate in ballistic efficiency. I believe there is a modernized or improved "Wildcat" version of practically every cartridge on the market of which the .22-3000 Lovell and the improved R-2 version are the most popular and outstanding examples. With the large capacity Newton and belted Magnum series of cartridges, we find velocities are being boosted still further, over five thousand feet per second, *a mile a second*, and the end not yet in sight!

As we find velocities reaching the "ultra" stage we also recognize a need for projectiles that can withstand such speeds and that can *retain* their velocity at effective ranges. Here we find some of our best known experimentors working with solid bullets of various alloys. Such bullets are machine spun and offer a decreased bore resistance plus uniform density, and most important of all, a micromatically accurate concentricity of form! Projectiles of this type are often sharply pointed, having a head form or ogive radius of from 8 to 12 calibers. They are usually fitted with driving bands to seal the grooves and insure proper rotation while the body

of the bullet rides lightly on the lands acting as a guide.

These bullets are nicely streamlined and with the word streamline usually comes the query, "What about the teardrop design"? I personally would not favor this design since it offers a number of disadvantages. It would not effectively seal the bore against the propellant gasses nor can we be assured that it will enter the bore in a straight line unless it is contained in a cup base which would drop off after the pellet had left the bore. The natural form of an unconfined liquid would be a sphere, due to its viscosity. As a drop falls a vacuum is set up in back and it is into this vacuum that the tail of the drop is formed. As the speed of vertical descent increases the tail lengthens. It falls of its own weight and after a certain speed is reached that speed remains constant, due largely to the frontal resistance of the bulk of the drop which is being drawn by gravity. The drop streamlines itself for its own speed, but remember that bullets travel faster than this and frontal resistance is of great importance if we hope to retain much of their velocity.

Let's leave the teardrop design to the teardrops and return to our sharp pointed missiles. Being of solid alloys they must be machined. An automatic screw machine could turn out such precision projectiles in numbers from uniform rods so we are now ready to look into the matter of design. Let's take an efficient, popular diameter, say .25 caliber. For bullets of this size we must have driving bands of .257 diameter to fill and properly seal the grooves and a body diameter of .250. Their length in this caliber should be about an inch and a quarter, 1.25 inches for highest ballistic efficiency.

The simplest type of sharp point would be the cone or pencil point used on the Wotkins & Sweany projectiles and on early Remington 7-mm. bullets. The famous experimentor of past years, Doctor Mann, obtained a high degree of accuracy by using a lead bullet with a forward section of bore diameter to ride the lands and guide the missile while the base was fitted with a band of groove diameter to seal the bore. I believe this design could be effectively reversed in our copper alloy bullet by placing the land riding section aft, thus shifting the weight forward for better balance. The use of the pencil point on such a missile leaves it base-heavy so we may subtract more weight at that point by using a boattail or tapered base of about eight degrees. An "inverted cone" shaped cavity would also prove effective as well as useful for it could, if necessary, contain a lubricant which would be effectively distributed as our projectile traversed the bore.

It will be noted that I attempt to have at least one right angle on the back of the rotating rings to effectively seal the bore on my "band-driven" bullet designs. The boattail design is also prominent since it is desirable to reduce the vortex or "vacuum drag" at the base of the bullet. While these "band-driven" designs may appear to be quite radical, a creative person can instantly observe that a number of interesting variations are possible. An armor-piercing type could be made by using a steel tip or core as illustrated or a sporting type with a tip of aluminum or some other soft metal. Explosive missiles might be devised in large calibers but we are mainly interested in the sporting and target types.

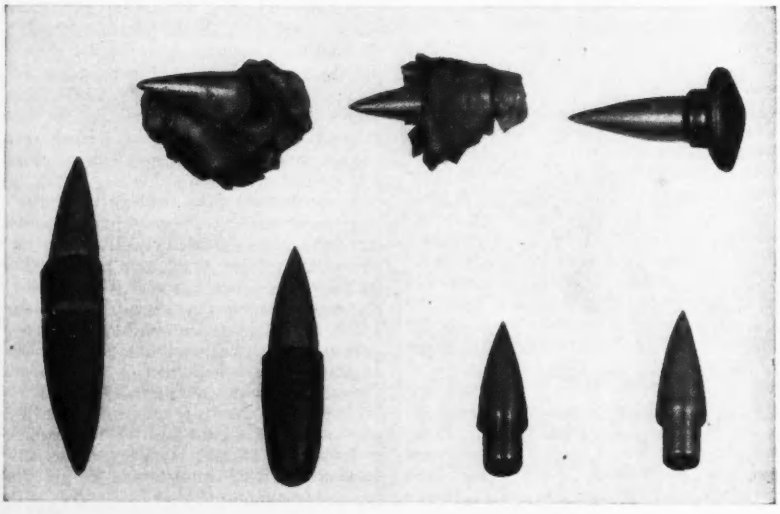
I cannot overemphasize the necessity for balance in bullets designed for the ultimate in accuracy. It is highly desirable to have the center of gravity coincident with the center of form for gyroscopic stability during flight. A cross sectional view of the famed .280 Ross match bullet reveals that it was well balanced in the core while the tip was hollow and merely acted as an air splitter. Since these "band-driven" bullets are rather long they must be balanced to retain their stability over extended ranges without the need for an exceedingly fast rifling pitch.—HARRY O. DEAN.

* * *

Current Bullet Ideas. I am showing a few more designs of jacketed bullets. I have drawn these in proportion and all in .30 caliber for better comparison. The first three, on the left, have all been proven effective by very effective long-range shooting. The remaining three represent individual theories.

No. 1, beginning on the left, is a reversed M1 Service bullet reformed by Norman Albree. I drew this from his sample bullet and gave it a 4-caliber head radius, which may be only approximately correct, but close enough, as it is a minor point here. The M1 9-caliber nose has become the tail and the 9-degree boattail has been reshaped into the nose by Albree. It works well as is, but for better long-range performance he caps it with his ogee sharp point by adding a plug of lead. He says it is accurate both ways, and ballistically fine with the pointed ballistic cap. The peculiar curve of the break or step where the tail and cylinder meet is very important, he says, for reducing lag or delay. The photograph shows other pointed-tail (aluminum) bullets tried by Albree, and tail plugs; one of bronze.

ALBREE ALUMINUM-TAIL BULLETS AND BRONZE TAILS BEFORE AND AFTER FIRING (TAILS UP)



I have obtained some more data, from both sides, concerning the 1000-yard test with Albree's patented 174-grain needle-point bullet. See my sketch in the January Dope Bag. At that time, I had received data from Mr. Albree which indicated his bullet had an average velocity over the range of 1704 f.-s. with a minimum loss of 1860 f.-s. or a maximum loss of 1920 f.-s. according to two possible interpretations of the submitted data. From the same dope the M1 Service bullet fired in the same test had an average velocity of 1667 f.-s. The official data on the M1 Service bullet at 2600 f.-s. m.v. and 1185 f.-s. r.v. at 1000 yards would give it an average of 1893 f.-s. over the range.

Recent dope received from one of the witnesses explains the discrepancy, with the information that the average instrumental velocity of the M1 bullet in that test was actually 2469 f.-s. This places an entirely different complexion on the matter, as it would account for the drop difference at 1000 yards and for the flatter trajectory of the Albree needle-point. It would also credit the M1 bullet with a finer ballistic performance in that comparison test. The average instrumental velocity of the Albree bullet was 2585 f.-s. If it had a loss of 1860 f.-s., as indicated by previous dope, its m.v. would have to be at least 2635 f.-s. Even with a greater loss the corresponding m.v. of the M1 bullet would be only 2520 f.-s. Its normal loss at 2600 f.-s. is only 1415 f.-s. and it should be less at any lower stabilizing velocity. Using a lower loss of only 1630 f.-s. for the Albree bullet its m.v. would have to be at least 2625 f.-s. and according to submitted dope it was probably higher.

No. 2 is the Youngberg 205-grain bullet, for the first time drawn from his sample and shown for comparison. I gave it a 12-caliber head. See the January and February issues.

No. 3 is an experimental Youngberg streamline which has proven successful even in the 10-inch twist. This bullet flies accurately at long range from standard rifles such as the .30-'06 and .270 Winchester, the secret of its success being the stepped down tail and its rings. In smooth form this identical bullet is unstable.

No. 4 is the latest word from A. J. Schubert. I drew it from a descriptive paragraph in his last letter, but as yet I have received no dimensions from him which makes it a picture of his general idea only. The changes, since the January Dope Bag, are: a longer and slightly inset aluminum tail dovetailed into the core, a driving band sloped to meet the bore-riding section, and an ogival head which I gave a 12-caliber radius. It might be better or at least more easily stabilized with a 9-caliber head.

No. 5 is Harry Dean's band-driven bullet in tubular form. It is 1⅛ inches long plus the base plug which is designed to fall off after it has closed the perforation along the longitudinal axis while the bullet is in the bore. The purpose is to eliminate much air resistance at the expense of sectional density. According to some of my experiences with drilled-through lead-alloy bullets it is not altogether a pipe-dream.

No. 6 is a suggestion from Fred S. Ellers for adapting .22-caliber bullets to .30-caliber rifles by means of a heavy base cup. The purpose is to provide a broad base to the gas thrust for greater total propulsion pressure and higher velocity and then present a small cross-sectional area to air resistance in flight. It is the tapered-bore idea effected in a straight standard barrel and bore. It should expand and grip the bullet in the bore and so impart spin to the bullet, which latter is released by the spreading of the base-cup walls from centrifugal force once clear, or beyond the muzzle. I gave this .22-caliber bullet a head radius of 8 calibers.

* * *

.38-40, also known as .38 W. C. F., was made for Winchester Model-1892 lever-action rifles in regular and high-velocity loads and for Colt revolvers in regular loading. This was 1310 f.-s. with the standard 180-grain S. P. bullet. The high-velocity load gave the same bullet 1770 f.-s. of which 1380 f.-s. remained at 100 yards. It had a trajectory midrange of 100 yards of 1.7 inches against 3.2 inches for the regular load. This rimmed bottle-neck cartridge develops 985 f.-s. in the 5½-inch barrel of a revolver. There is also a Remington Hi-Speed load for rifles with a 145-grain bullet at 2000 f.-s. which has a 100-yard trajectory of 1.3 inches. The remaining velocity is about 1500 f.-s. The .38-40 is more accurately a .40 caliber with its .400-inch groove diameter. In my own S. A. Colt revolver I found exact charges were necessary as the .38-40 was sensitive to slight variations of the charge. With the 130-grain H. P. Remington Hi-Speed bullet, I found 8.3 grains of No. 5 powder to be surprisingly accurate.

* * *

The .38-72 Winchester was a fat, rimmed bottle-neck cartridge used in the Model-1895 Winchester lever-action rifle. It had a 275-grain S.P. bullet at 1475 f.-s. m.v. Others of that same period and in the same game-shooting, or power, category were the .40-60, .40-65, .40-72 and .40-82. They used bullets ranging from 210 grains at 1533 f.-s. (.40-60) and 260 grains at (.40-65) 1360 f.-s. and at 1490 f.-s. (.40-82) to 300-grains at 1425 f.-s. (.40-72). The power developed by these was in the general class of the .38-55. The .40-70 made 1382 f.-s. m.v. with a 330-grain bullet.

* * *

.401 Winchester S.L., adapted for the Model-10 Winchester Self-Loading rifle, was a short, straight, rimless cartridge with 200-grain bullet at 2135 f.-s. and 250-grain bullet at 1870 f.-s. The 200-grain bullet dropped nearly two feet over 200 yards and more than five feet over 300 yards. The 250-grain dropped ½ foot over 100 yards, nearly 2½ feet over 200 yards and more than 6 feet over 300 yards. For its size this cartridge was remarkably powerful. On paper it continues to intrigue many catalog readers who still have to meet it face to face for the first time on the testing range or in the game woods. Among active users or those who purchase arms and ammunition, its popularity, never great, has waned. It was not very accurate, and its rifle is obsolete.

* * *

The .405 Winchester is a long straight rimmed cartridge for the Model-1895 Winchester. This powerful load was used successfully on all big game, including heavy African species, and by many prominent hunters, including Osa Johnson and the Roosevelts. It drove a big 300-grain bullet at 2200 f.-s. m.v. with 1925 f.-s. remaining at 100 yards. At the muzzle, with full patched bullets it barely equalled the penetration of the smaller 170-grain .30-30 Winchester bullet in pine, but exceeded that of the .30-30 when soft-points were used in both. The recoil of the .405 was very high, or in the class of a 12-gauge shotgun. Its big bullet carried up well, but its drop was 4 feet over 300 yards, ½ yard at 200 yards and 4 inches at 100 yards.

* * *

.400 Whelen on the .30-'06 case was made by Griffin & Howe for the U.S. Model-1903 action. One technical fault was the very meager shoulder left on the .30-'06 when its neck had been adequately expanded to hold the big .412-inch bullet. This fault was important, because the rimless case depends on the shoulder for a chamber stop in the interests of proper fitting and headspacing of load and arm. It was a powerful game load with a 300-grain bullet at 2375 f.-s. and a drop of less than 16 inches over 200 yards. There was a 350-grain bullet at 2200 f.-s. and about the same drop.

* * *

The .400 Niedner, on the .30 Newton case, uses the same action and barrel and bullet as the .400 Whelen cartridge. The case length and body length and neck length are the same in both cartridges, but the .400 Niedner has the advantage of a more pronounced shoulder, thanks to greater body diameter of the .30 Newton case as compared with the .30-'06 case of the .400 Whelen. I showed one of our .400 Niedner cartridges in the February Dope Bag on page 48.

We had a G. & H. Springfield Sporter in .400 Whelen caliber, which we sent to the Niedner Rifle Corporation for the conversion job, a matter of rechambering, etc., at a nominal cost. With their own 10-pound test gun they reported groups as small as 1¼ inches at 100 yards. Apparently the heavy loads gave the best accuracy. They claimed velocities up to 2700 f.-s.

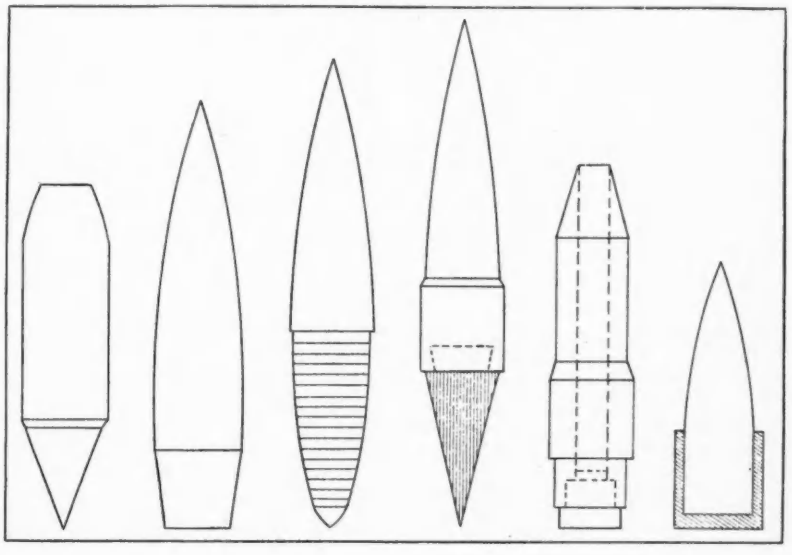
They did a good job on our Springfield rifle, the work being performed by Vernor Gipson before he left the firm. He is also equipped for this work in his Chicago shop. We had our loading tools converted to take the .30 Newton case by Belding & Mull. This same firm supplied us with powder, primers, .405 Winchester 300-grain jacketed bullets and also the B. &. M. 300-grain blunt-nose lead-alloy bullet No. 414300. We got cases from the Niedner Rifle Corporation. This was all back in the beginning of 1940.

Our rifle had peep and bead sporting sights and we did not expect the smallest groups under the circumstances. The recoil was not severe, with the 8½-pound rifle, but we fired from a light portable bench rest exactly as we had fired the .375 Magnum and rifled shotgun slugs for accuracy at 100 yards. We were interested in getting a practical load with the lead-alloy bullet. The groove diameter was .412 inch and we used an expanding plug of that diameter. The factory bullets miked .411 inch in Metal-Patched type and .412 inch in soft point. One lot was also .4105 inch. The lead-alloy bullet was used .4135 inch, lubricated but without base wads.

Loads of No. 80, from 27 to 33 grains in weight, were inaccurate and this was true of Lightning in all charges above 25 grains and below 20 grains. While there was bad bore-leading with No. 80, base wads didn't improve the accuracy. Our best loads were 22 to 25 grains of Lightning which shot into less than 3 inches at 100 yards and 25 grains of HiVel No. 3 which measured under 2 inches. This was very satisfactory for bead sights.

We had fair results with 66 grains of HiVel No. 2 behind the 300-grain jacketed bullets

SOME NEW BULLET DESIGNS



and also with the same amount of No. 1044 Experimental powder, but 66 grains of No. 4320 was slightly better, its groups running under 2½ inches at 100 yards. Another good load, slightly more accurate, was 64 grains of No. 3031. We used F.A. No. 70 primers throughout. These big bores are more easily cleaned, especially of salty fouling, than are .30 or smaller bores.

At 200 yards, which was long range for this outfit, we had 5-shot groups of 7.46 and 7.10 inches with 66 grains of HiVel No. 2 and 67 grains of No. 1044-Ex., respectively. The latter charge sent the big 300-grain bullet 1.35 inches above aim at 100 yards and 2.00 inches low at 200 yards. The relative impacts with the .405 Winchester and the same bullet at 2200 f.-s. m.v. would make it land 4.30 inches low at 200 yards with the same 100-yard impact. This would indicate 2400 f.-s. m.v. for the .400 Niedner, with our load, which was not as heavy as some tested for fine accuracy by the Niedner Rifle Corporation. They considered our load of 66 grains HiVel No. 2 weak for this cartridge, although I judged even this moderate load developed 2500 f.-s. m.v. Our drop was only a foot over 200 yards, which is ½ foot less than the .405 Winchester.

* * *

Other Forties. In passing, we might mention a few of the foreign cartridges of approximately the same caliber. These British loads are listed in the Stoeger's catalog of 1940. The .400-350 Flanged Nitro-Express with 43 grains of nitro-cellulose smokeless gave a 310-grain bullet 2,000 f.-s. m.v. with 1842 f.-s. remaining at 100 yards. The .400-360 Nitro-Express, by both Purdey and Westley Richards, used 300-grain and 314-grain bullets with 40 and 41 grains of Cordite for 1900 f.-s. m.v. Then there is the .400-375 Holland & Holland with 43 grains Cordite behind a 270-grain bullet which gives 2175 f.-s. m.v. and has 1930 f.-s. left at 100 yards. The .400 Purdey, 3-inch, uses 47 grains of Cordite behind a 230-grain bullet and reaches 2050 f.-s. m.v. in a 20½-inch barrel, which is 100 f.-s. per inch. It has 1687 f.-s. left at 100 yards. The others, above, had 28-inch barrels.

The .404 Rimless Nitro-Express used two loads, or 60 and 70 grains Cordite. The lighter load gave a 400-grain bullet 2125 f.-s. m.v. in a 28-inch barrel, with 1872 f.-s. remaining at 100 yards. The heavier load gave a 300-grain bullet 2625 f.-s. m.v. with 2390 f.-s. remaining at 100 yards. The .416 Rigby used 70 and 71 grains of Cordite with 400-grain and 410-grain bullets, for 2300 f.-s. m.v. in a 26-inch barrel. The 100-yard velocity for both was 2110 f.-s.

Before the war, Griffin & Howe made their custom sporters in these .404 Magnum and .416 Magnum calibers. For a 24-inch barrel they quoted 2490 f.-s. for the 300-grain bullet and 2200 f.-s. for the 400-grain in .404 Magnum rifles. In the .416 Magnum they cataloged 2375 f.-s. m.v. for its 400-grain bullet.

* * *

The 10.75-mm. Mauser, of .423 caliber, used 66 grains of nitro-cellulose powder and a 347-grain bullet for 2175 f.-s. m.v. in a 24-inch barrel. Its bullet had 1943 f.-s. left at 100 yards. It has a rimless bottle-neck case 68-mm. long with a long (over an inch) bullet, deeply seated. The cartridge length was 82-mm. It is used with the Magnum-Mauser action, but guns for it have been reported as light as 7½ pounds with the 24-inch barrel. Other ballistics reported for this .42 caliber and its 347-grain bullet were: 2313 f.-s. m.v. and 4123 ft.-lbs. of energy at the muzzle. The midrange trajectory over 300 yards was just under a foot, and less than five inches over 200 yards.

Stoeger's catalog likens the .404 Jeffery to a 10.75-mm. with a 73-mm. case. The Mauser factory listed a .404 Eley with a case 89-mm. long. There were other rimless .404 Magnum cartridges listed for magazine rifles such as the Westley Richards. Another .42 caliber was the .425 Magnum Express by Westley Richards with 65 grains of powder and 410 grains of bullet at 2350 f.-s. and over 5,000 ft.-lbs. m.v. It will be interesting to learn later how many of these will survive the war.

* * *

The .44-40 Winchester, or .44 W.C.F., a short, rimmed bottle-neck cartridge, was developed for the old Model-1873 Winchester lever-action rifle. Its action called for black powder pressures, and its tubular magazine required flat-nose bullets. The influence of its predecessor, the .44 Henry Rim Fire, gave this rifle a .4285-inch groove diameter and a slow twist of a turn in a yard of bore length. The lead bullet weighed 200 grains and was given 1300 f.-s. m.v. It had 1035 f.-s. left at 100 yards, over which range it dropped a foot. Its gravity drop over 200 yards was more than five feet. In Colt and S. & W. revolvers this load made 920 f.-s. in a 6-inch barrel.

Later, the stronger Model-1892 Winchester was brought out in .44-40 caliber and also the Marlin Model-1894, the Remington Model 14½ slide-action repeater and the Winchester S.-S. rifles. These stronger arms were adapted for the high-velocity smokeless loads with 200-grain S.P. bullets. The m.v. was 1565 f.-s. with 1225 f.-s. r.v. at 100 yards. The drop was 10 inches at 100 yards and less than four feet over 200 yards. The current factory ballistics give only 5 f.-s. higher m.v., an inch less drop at 100 yards and two inches less than formerly over 200 yards.

There was some trouble in fitting the various arms in this caliber with cast bullets of the usual .429-inch diameter, because of groove differences. The Remington groove diameter was as small as .424 inch and no larger than .426 inch. Remington barrels also had a quicker twist of rifling, or one turn in 20 inches. A new high-speed load was ultimately placed on the market for the .44-40, by Remington, with a 160-grain hollow-point copperjacketed bullet. It was given a big jump in velocity, up to 2000 f.-s., with a drop of only 31 inches over the 200-yard distance, whereas the best previously attained had been 44 inches, with the high-velocity load. Some shooters in short-range hunting country reported good results on deer.

* * *

S.-S. Sharps Loads. In the same era, the heavy single-shot rifles of Christian Sharps played a prominent part in .40, .44, .45 and .50 caliber. Cartridges, both straight and bottle-neck, were as long as 4¾ inches and some were shorter than 2¾ inches. These were blackpowder loads of the most powerful sort obtainable in that era. Besides such standard factory loads as the .40-65, .40-70, .44 Spanish, .45-70 and .50-70 there were many special Sharps cartridges, with bottle-neck cases and long straight-taper cases and paper-patched lead bullets, adapted for these side-hammer Sharps rifles. They are too numerous to be listed here.

Perhaps the most interesting .44-caliber Sharps cartridge was the 2⅝-inch .44-105-520 bottle neck. The figures signify 105 grains of blackpowder behind a 520-grain bullet. There was also a 3¼-inch .45-135-550 Straight Sharps and a .45-165-670 in a 3½-inch case. These were effective at 1700, 2200 and 2700 yards on buffalo and cattle and similar game.

The most famous, perhaps, was the heavy-barrel Buffalo Sharps (17 pounds) in .45-120-550 caliber, for long-range accuracy and killing power. There were other bigger calibers, with which we are not concerned here. The most interesting and concise collection of data on all the Sharps cartridges which I have been able to find anywhere was published by C. G. Williams in Hunting and Fishing in Canada, January 1941 issue.

* * *

Jap Trickery. E. Baden Powell informed me members of his rifle club in San Diego tried out captured Jap small arms equipment in the form of their .256-caliber rifle and bullets. Their military bullet fired into soft clay and other material of bone-density mushroomed as perfectly as a 6.5-mm. sporting Soft Point. That should give food for thought to some of our own people who are reluctant to endorse the solid-lead, rifled, shotgun slug for fear of enemy reprisals. As further evidence, some of our wounded in the South Pacific show small bullet-entrance holes in their bodies and 1½ inch exit holes on the opposite side, a dum-dum effect.

Another Jap trick is to use hardwood bullets as an infiltration tactic so they can shoot our patrols in the back at short-range fighting without unduly endangering their own lines beyond. Some of these perfectly formed hardwood bullets have come back from Guadalcanal and were discovered when west coast P. O. authorities broke down illegally mailed Jap ammunition for postal inspection. A Marine officer supplied the information about its tactical employment. Quien Sabe?

* * *

.220 Swift Load. I would greatly appreciate any dope you can give me in regard to loads for the Swift using the Sisk 55-gr. bullet.—*B. I.*

Answer: I have your letter on reloading. With the 55-grain bullet in the .22 Swift the standard factory load is 36.5 grains of No. 3031 which gives 3635 f.-s. in a 26-inch barrel with the bullet seated ¼-inch deep in the mouth of the case. Under these conditions the maximum load of 4320 powder is 37.5 grains and of No. 4064 powder, 38.5 grains. You could probably use 40 grains of 4350 powder. A good load recommended with this latter powder is 39.0 grains weight which has been very successful on chucks according to my informant. Others like the 55-grain 8-S bullet with 38.5 grains of No. 4320 powder and report it to be quite successful.

The usual primers used with these loads are the W.R.A. No. 120 or the Remington No. 9½; but start at least a grain under maximum. Be careful about the length of your cases and the neck thickness.

1185 in the Krag. Last deer season I got a lot of I.M.R. 1185 powder and some 170-grain, soft-point, boat-tail bullets, having lubaloy jackets.

I loaded my Krag cases with 42 grains of 1185 and seated the bullet so the overall length of cartridge was 2⅞ inches. The Krag barrel was 25 inches. About what muzzle velocity? About what muzzle energy? About what midrange trajectory of 200 yards? How much more of 1185 could I have used with the 170-grain bullet and still be within the safety limit? How much 1185 can I use in the Krag with 220-grain Remington Express mushroom bullet and what ballistics?

Are any of the new double-action revolvers stronger than the Colt single-action in .44 Special caliber? How much difference in muzzle velocity between a 6-inch barrel and 7½-inch barrel with the .44 Special? Which would you advise for hunting? How much No. 80 powder to use in the .44 Special with Keith bullet, 235-grain hollow base? About what muzzle velocity would the maximum charge develop?—C. S.

Answer: There are different lots of 1185 powder with (per lot) varying characteristics, and I would consider your load of 42 grains weight as a maximum charge, because of your short overall cartridge length, which, in my opinion, should have been over 3 inches rather than under 3 inches. You therefore, had a maximum load which developed full pressure and should not be exceeded. The 170-grain boat-tail bullet probably developed 2400 f.-s. in your 25-inch barrel, and would have a trajectory over 200 yards of about 3¼ inches. With the 220-grain bullet never exceed 40.0 grains, which would give about 2000 f.-s.

With a very long, heavy revolver bullet, the muzzle velocity would be higher in a 6-inch barrel than a 7½-inch barrel. However, with normal or standard bullets, the velocity would be about 25 f.-s. higher in the 7½-inch barrel at full velocity. The 235-grain Ideal-Keith Hollow-Base bullet develops dangerous pressures at 1000 f.-s. muzzle velocity, or well above 20,000 pounds. On the other end of the scale is a recommended Ideal charge of 9.5 grains weight No. 80, which develops under 800 f.-s. You should, therefore, not use over 12.0 grains weight, which would develop about 925 f.-s. These heavy loads should be used in new cases and in strong, modern revolvers, like the New Service Colt, Single Action Colt, and S. & W. Military Model.

TRADE DOPE

Merit Gunsight Co. advises they still have many of their excellent sighting aids in stock. Among them are: their Iris Shutter Master Target Disc with flexible light shield of rubber for rear sights, their No. 4 series of discs for front sights, their adaptors for Lyman, Redfield and Wittek-Vaver globe sights, their No. 3 series of discs for all standard makes of peep sights, and their optical attachment for shooting glasses. These are shown and fully described in an 8-page folder just received, which includes a convenient sight chart for ordering. Also available and described is the Merit Melting Pot with bottom feed, for gas stoves, plumber's stoves, etc.

* * *

Gold Star Gun Oil has been announced by Glen L. Fisher of Jackson, Michigan. We have received a 2-ounce bottle for test. One statement in the literature of Smith-Winchester Co., who market the product, is: "Unconditionally guaranteed to properly lubricate all types of sporting firearms."

* * *

John W. Smith has sent in his current No. 22 catalog or bound illustrated price list of modern and antique arms, weapons, relics and scopes. N.R.A. members are invited to visit his museum, where they have been welcome for the past twelve years. The book costs two bits.

* * *

E. C. Bishop & Son announce they will continue to furnish semi-finished stocks and inletted blanks, but are forced to discontinue all other gunsmith work for the duration.

* * *

Welding Service. Martin Friedmann, Jr., 1421 Phillips Avenue, South Norfolk, Va., says he has taken care of local welding jobs for years, including welding, brazing and silver soldering on guns and parts. He does no other gunsmithing work of any kind. He "can build up worn sears and firing pins, alter bolts, harden; am familiar with welding nickel steel, tool steel, etc."

* * *

F. Theodore Dexter is still issuing from Topeka, Kansas, his periodical, mimeographed "Bargain List" of collector's items in firearms. The latest one received was for mid-January and it lists, chiefly, antique handguns. It also bears a footnote which warns, "The Supply Is Strictly Limited Now."

An interesting special was also received from Mr. Dexter, in the form of one 8 x 11 illustrated sheet dealing with low-cost tear-gas equipment. One is a 5-shot revolver, another is a tear-gas pencil and a fountain-pen pistol. Also there are .410 bore tear-gas cartridges and an attachment or adapter of the same gauge for .32-caliber and .38-caliber pencil guns. These are all serious-purpose police outfits from a well-known dealer.

* * *

Wisler Western Targets, have mailed a new 82-page catalog in 1943. Our copy came in January. Besides official N.R.A. targets it lists and illustrates components and all varieties of shooting accessories for reloaders as well as shooters.

* * *

Leonard Engineering Co. of Capitol View, Md., has issued a circular showing their "precision magnifying scale," called the Micro-Scale, which is a plastic magnifying lens mounted above and attached to a steel rule by means of an adjustable bracket on a sliding base. The rule is ¼ x 6 and graduated in 64ths and 32nds inches. It would be a fine gadget for our own steel rule which is graduated in 100ths of an inch and hard to read with unaided eyes.

* * *

Rent a Bullet Mold, if you cannot buy one. Helmer Romness of Zumbrota, Minnesota, advertises this service to reloaders and at low cost. He has more than a dozen different .30-caliber designs, as well as 7-mm. and .25-caliber molds. He furnishes lubricating dies and the machine if necessary. He also has some full-length case-sizing dies for rent. He lives on R.F.D. No. 1.

* * *

D. W. Thomas of Vineland, N. J., is still furnishing walnut stock blanks for gun and rifle from his reserve supply and is now cutting more for 1945. He also has Circassian walnut, Birdseye Maple and Oregon Myrtle. For gunsmiths he has, in addition, an inletting service.

* * *

Morton's, a Jewelry & Curio Shop, of 40 Fulton Street, New York City, announces taking over, for the duration, the stock and business of Martin B. Retting, who formerly advertised in THE AMERICAN RIFLEMAN. The proprietor is Morton Retting.

NATIONAL RIFLE ASSOCIATION WASHINGTON, D.C. OFFICIAL

Official N.R.A. Targets LITHOGRAPHED

LOOK FOR THIS SEAL

SEND FOR FREE New Illustrated Folder & Price List

Order your Targets NOW . . . for present and future needs. War conditions make deliveries uncertain. And raw materials grow scarcer everyday. It's a wise sportsman who orders in advance.

• Non-glare bull's-eyes • Crisp white rings
• Sharp, clean bull's holes • Positive Uniformity

NATIONAL LITHO CO. 1255 25th St., N. W., WASH., D. C.

FOR SALE: THIS SPACE AT LOW COST

A display ad of this size measures 14 agate lines or one inch. It costs $14.70 per issue if less than six insertions are used within one year; $13.30 per issue for six or more insertions in a year; only $11.90 per month for twelve consecutive insertions. THE AMERICAN RIFLEMAN circulation is now well over 65,000 copies monthly. We will be glad to help you in writing "copy," making "lay-outs," etc. No charge, of course. What is your product?

POINTER STOCKS Molded in walnut and ebony for Colt Woodsman, Hi-Standard all models, $4.50. Colt and S & W $3.50 and $4.50. Molded in Ivory 50¢ extra, for all models. At your dealer or direct. Send for illustrated circular.

WALTER MURAD
1006 El Camino, San Carlos, California

BULLET TRAP $13.00 f.o.b. Detroit

Small, compact, portable, *inexpensive,* and highest efficiency. Size 12" wide, 14" tall, 17" deep. Weight, approx. 42 lbs. For every pistol and revolver up to and including the .357 Magnum. Also for .22 caliber rifle.

DETROIT BULLET TRAP CO.
Box 56, College Park Sta., Detroit, Mich.

THE ARMS CHEST

The Arms Chest is an open market trading post where manufacturers, distributors, purveyors of professional services, and our own readers may cry their wares to fellow sportsmen at a modest cost. Returns are uniformly excellent—scores of advertisers have reported truly phenomenal results.

Advertisements are accepted from annual and life members of the National Rifle Association, *for personal transactions exclusively*, at 8¢ per word INCLUDING NAME AND ADDRESS, minimum charge $1.20. For all *commercial* advertisements the rate is 10¢ per word INCLUDING NAME AND ADDRESS, minimum charge $1.50.

Groups of figures are computed as one word. Spell out all descriptive words; abbreviations may lead to serious misunderstandings and thus impair the effectiveness of your ad. A *specific* price must be stated on all *for sale* ads. Box number or blind ads will not be accepted. Please give your *complete* name and address, so as to insure the prompt delivery of all mail or telegraphic replies. All advertisements *must* be accompanied by cash. Final closing date is the 5th of the preceding month. *Please print all advertisements plainly*—we cannot be responsible for errors due to illegible writing.

In describing the *condition* of guns advertised these standard phrases must be used: *Perfect* means factory condition. *Excellent* means new condition, implying negligible amount of use. *Very good* means practically new condition, implying little use, resulting in no appreciable bore wear and only minor surface scratches or wear. *Good* means moderate use with some finish worn off, only moderate bore wear with no pits and nothing worse than a little roughness in the bore. *Fair* means reasonably hard service, reasonable wear inside, nothing worse than minor pits in the bore, implying the gun is sufficiently accurate for hunting. *Poor* means marred appearance and pitted or badly worn bore.

FEDERAL EXPLOSIVES ACT

Under the Federal Explosives Act of 1941 *all* buyers, sellers and possessors of powder and primers (not complete small arms cartridges) must be licensed. Purchasers must submit their license, or a certified or photostat copy thereof, to the seller at time of sale.

MEMBERS EXCHANGE

A quick, inexpensive medium for disposing of guns and accessories no longer needed, or for the purchase of more suitable similar items. We urgently request that a full description be given of every article offered, and its *condition* (see complete instructions above), for transactions of this sort must be based entirely on good faith and mutual satisfaction. Deliberate misrepresentation will of course result in immediate expulsion from N. R. A. membership.

Purchasers who wish to examine, before acceptance, guns or equipment purchased thru these advertisements should request shipment by express, C.O.D., *with examination privileges*.

FOR SALE

THE REVOLVER TIMING RECORD. A 10 inch RCA-Victor phonograph Record. Practice Timed and Rapid-Fire anywhere, by yourself. Nothing to watch—just listen. For "dry" shooting, basement and outdoor ranges. One side 10 second timing, other side 20 second timing. Plays on any phonograph. $1.50 postpaid. The Original Sight-Exchange, Box J, Paoli, Penna. 1-44

GRIFFIN & HOWE 300 H. & H. BULL GUN, 48L, Scope Blocks, perfect, cost $275.00, take **$175.00. M-12, 12 gauge, perfect except blueing off receiver, $50.00.** L. C. Smith Specialty grade auto ejectors, single trigger, very good, $85.00. M. 70 Stock, new, $10.00; 52 Stock, $5.00. Pope **Bullets 1¢ each, 1000 lot. Ideal Hand Tool 35** Auto, 350 Bullets, $10.00. WANT—New M. 70, 300 H. & H. or 270. Art Wright, Albert Lea, Minn. 3-43

1 HEAVY BARREL 52 WINCHESTER, LATE model, No. 51707B with sling, rear sight Lyman extension with Iris shutter, front sight Redfield with inserts, in excellent condition, inside and out, very accurate, fired less than one thousand rounds, $65.00; one 75 Winchester sling extension, rear sight, hooded front sight with inserts, excellent inside and out, almost new, $28.00; one N. R. A. spotting scope B. & L. with Jaymac stand, excellent, like new in original box, $50.00. Captain T. B. Myers, c/o Hiway Patrol, Ukiah, California. 3-43

WINCHESTER 52 H. B. WITH LYMAN 17A front and 48 F. A. rear sight, sling, and gun case, perfect condition, $70.00. Will trade for Speed Graphic, 2¼x3¼ plus cash. Arthur Martens, 1053 W. Sheridan Rd., Chicago, Ill. 3-43

REMODELED ENFIELD SPORTER, NEW WINchester barrel, 29S scope, B Mounts, $50.00. H. V. Crum, Fort Yates, N. D. 3-43

SPRINGFIELD SPORTER #1,524,167, 30-06, Ramp front, Redfield rear, Special stock, cheek piece and sling, perfect condition, $80.00. Kenneth B. Spaulding, 41 Weed Hill Ave., Springdale, Conn. 3-43

WINCHESTER 52 MARKSMAN STOCK, NO sights, heavy barrel, perfect inside and out, stock slightly scratched, $55.00. Robley J. Bean, Bridger, Mont. 3-43

FOR SALE: CURLY MAPLE, WALNUT and Cherry Stock Blanks. L. G. Stockberger, Garrettsville, Ohio. 5-43

300 PRIMED WINCHESTER .30-'06 CASES; 4128 new Primers as follows: 1259 Winchester 115; 100 Winchester 120; 1869 Remington 9½. .30-'06 bullets as follows: 380 Winchester 172 grain boattail protected point; 490 Winchester 180 gr. silvertip; 500 M-1 172 gr. boattail. 200 Squibb gas check, sized, lubricated gas checks attached; 125 cupro-nickel 150 gr. pointed. 2600 Ideal 30 cal. gas checks. 1000 Empty M-1 .30-'06 cases fired once. B. & M. mold for .30-'06 Squibb gas check bullet practically new condition. 10 lbs. 4320; 1 lb. 4064; 2 lbs. Hi-Vel #2; 4 lbs. Hercules Lightning. Will not sell separately, $130.00. Send explosives permit. Frank M. Harper, Jr., P. O. Box 1346, Raleigh, N. C. 3-43

SMITH & WESSON, M. & P., 38 SPECIAL, 6" barrel, excellent, $45.00. Colt's P. P., 38 special, 4" barrel, very good, $30.00. Colt's P. P., 32-20, 4" barrel, good, $25.00. Leo Werner, 1122 Market Street, McKeesport, Pa. 3-43

FOR SALE—COLT SUPER "MATCH" 38 AUTO, Buchananized, excellent, $46.00; Pacific dies, complete, 38 auto., $8.00; 700, 38 Spec. 150 gr. Standard Bullets, $10.00; 1000 assorted 38 Auto cases, $10.00; 100 Winchester 108 Primers, $10.00; Malcolm #1, 8 Power Scope, good, $20.00 f. o. b. no trades. Cleve Bovee, 424 4th Street, International Falls, Minn. 3-43

S. & W. 32-20 4"; COLT .45 N. S. TARGET; S. & W. K-22, excellent, $60.00 each. 10,000 Peters #15 Primers, lot, $100.00; Camp Perry, very good outside, excellent inside, $40.00; Zeiss 10x50 Dekar, leather case, excellent, $175.00; .38 Special, nickeled cases, $6.00 per thousand. Earl Nethaway, 150 Remson Street, Brooklyn, N. Y. 3-43

WINCHESTER MODEL 75 TARGET RIFLE, iron sights, Winchester 8X telescope sight and sling. Inside excellent, outside very good, $40.00 f. o. b. A. L. McKay, Sec., Montevideo, Minn. 3-43

SALE: WINCHESTER 70 SWIFT, TARGET barrel, good in out, 330 Lee dot, Pup Stock too, $110.00. Ayer Binocular 6x30, case, good, $35.00. Hand loads 220, 257, 30-06, 300 H&H, $6.00 up. Frank Foster, Clovis, New Mexico. 3-43

FOR SALE—1 ZEISS TURATEM 8x24 BINOCular with case, $30.00. I. M. Lindgren, Amery, Wis. 3-43

FOR SALE—ITHACA #5 TRAP, 12x32 F. & M., Single Selective Trigger, Vent. Rib, Beavertail. Beautiful gun, excellent, $180.00. WANT—Perfect Winchester 21 Trap. Martin Thun, 3831 14 Ave., Kenosha, Wis. 3-43

WINCHESTER 52 H. B., WITTEK FRONT sight, interchangeable inserts, Lyman micrometer rear, excellent to perfect, $75.00. French Binoculars 8 Power with case, very good, $20.00. WANT—Colt Bankers Special. Capt. M. Wright, 5214 Woodlawn, Chicago, Illinois. 3-43

FOR SALE—SEVERAL STOCKS AND FOREarms, factory built for Model twelve Winchesters. Send stamp for list. W. B. Arey, Salisbury, N. C. 3-43

REMINGTON SPORTSMAN, 20 GAUGE AUTOmatic, Cutts compensator, 4 boxes shells, $80.00. Winchester Model 12, 20 gauge, 28 inch full, leather case, $47.50. WANTED—Lyman or Unertl 1¼ inch scope. Must be perfect. D. Hands, 117 Jones, Mt. Clemens, Michigan. 3-43

AMERICAN RIFLEMAN FROM JANUARY 1925 through 1942, except one copy, $2.50 per year. Mrs. J. W. Frankfather, Winona, Mississippi. 3-43

FOR SALE—MODEL 1917 COLT, .45, FITTED with Pacific ramp and wide blade front sight, adjustable target rear, cockeyed and skeletonized hammer, honed and relieved action, Franzite ivory grips, excellent in, blueing worn some out, $50.00; Colt Automatic .45 Service Model, excellent in, blueing worn some out, holster, box of cartridges, $35.00. A. W. Rife, Good Hope, Ohio.

LARGE STOCK OF AMERICAN AND European Antique Arms. Send 10¢ coin for latest 9th edition catalog, featuring the important Dr. Buck collection. Antique arms wanted. We buy single pieces or whole collections. Fair prices paid. Kimball Arms Co., Woburn, Mass. tf

WINCHESTER MOD. 70-30'06. BEAUTIFUL Bishop Stock bedded by Bishop, Ivory pistol grip cap. Winchester quick detachable sling swivels. Tilden safety; Henshaw Beavertail trigger, equipped with 330-S Weaver scope, T.K. Lee floating center dot reticule, in Stith mounts. Fired only 130 rounds. Perfect except slight scratch on magazine floor plate, $135.00. No trades. Photograph on request. Ship subject to inspection. Frank M. Harper, Jr., Box 1346, Raleigh, N. C. 3-43

FOR SALE: WINCHESTER 70 2R LOVELL chambered by Gebby, excellent condition, very accurate, blocks, 1,000 primers, 100 cases, 300 Sisk and 700 8S bullets, 3½ #4227, 50 8S loads, B. & M. tool, seater, resizer; this fine complete outfit $155.00, nothing sold separately. FOR SALE OR TRADE; For .30-06: complete Red Head tool, $15.00; resizing die, $3.50; 25, 93 grain Luger loads, $2.00; 1,000, Luger 93 grain S.P. bullets, $21.00; 300, Winchester 32-20 115 grain bullets, $7.50; 150, Winchester 30-30 110 grain OPE bullets, $4.00; unused 70 stock, buttplate, swivels, $12.00 WANTED—50 and 55 grain bullets for Swift; 300 Savage and 348 Rifles and Ammunition. Money orders please. Lloyd B. Brenner, 33 Stoddard Avenue, Dayton, Ohio. 3-43

SAVAGE 219 HORNET, NEW, $18.00 WINchester S. S. 32-20 new barrel, $15.00. Range King 1½" objective for Lyman 438, $9.00. Ideal 25-20 Repeater Tool, Mold, $2.50. Winchester 30-30 Tool, $1.50. Lyman 57-W Sight, $4.50. J. G. Fair, 802 Chestnut, Grand Forks, No. Dak. 3-43

ODD LOTS AMMUNITION GUNS—Specializing in Single Shot Rifles for .22 conversion. Rare Sharps, Rifles and ammunition. Large list for 3¢ stamp. 10% discount to N.R.A. members. Paul (Single Shot) Ratliff, N4912 Market, Spokane. tf

HERE'S WHAT THEY SAY—

"My ad in your December issue really got results, and I therefore desire to place another ad in your magazine."—Jacksonville.

"I have been deluged with long distance calls, telegrams and air mail letters for past seven days. All the guns advertised were sold immediately."—Norfolk.

"I put in a short ad and have had about two dozen answers from all over the United States. They came by special delivery, air mail, and telegraph. I was very well pleased with the results."—San Antonio.

Help us to help *you* by getting your April ad in not later than March 5th!

Read the complete instructions at top of this page.

KILBOURN-HORNET, DEADLY ON chucks and crows. 3,000 F.P.S. velocity with 45 gr. bullets, 2,900 F.P.S. with 50 gr. Your Hornet rechambered, $5.00. Magazines altered for long bullets. Winchester, Savage, $2.00. Lysle D. Kilbourn, New Hartford, N. Y. tf

FOR SALE: FIFTEEN HUNDRED ACRES HUNTing Ground, twenty miles north of Williamsport, Penna., on route 15. Prices on request. Francis Roupp, Liberty, Pa. 3-43

SELL—F.O.B. DETROIT, PERFECT CINE Kodak Model K, 100 feet color film (time expired) and Perfect Weston Junior Exposure Meter, $115.00 Wanted—Perfect .375, 70 barrel only, gas checks .25. Ideal preferred. J. Hall, 4333 West Philadelphia, Detroit, Michigan. 3-43

SAVAGE HORNET MODEL 19 H.B. MICROMEter Rear, Lyman Changeable Bead Front Sight. Sling, 150 Hollow Point Kleanbore, Perfect, $47.00 National Match Star Gauged Springfield as issued with polished receiver, accurate, excellent, $47.00 S. & W. 38 Special, 6", excellent, $35.00. Colt Army 38 Special 6", Perfect, $38.00. Robert Gotti, 927 Tropical, Pittsburgh, Pa. 3-43

PERFECT SUPER GRADE TARGET, 375 Magnum, Model 70, Lyman 48, Pad, sling, Scope Block. Fired 20 shots, $150.00; 348 Model 71, Excellent Sling, $70.00. Money order. George Nehrbas, Box 634, Fairbanks, Alaska. 3-43

GREENER 20 GAUGE, 28" MODIFIED AND full stock, 14¼x1-9/16x2-11/16, 1½" pitch, Ejectors, weight 5¼ lbs., straight French walnut stock perfect condition with leather case, $350.00. Worth $500.00 at today's market. H. J. Ferry, Longmeadow, Mass. 3-43

COLTS .38 SPECIAL OMT. 4½". PACHMAYR action. Roper custom stocks, Heiser. (350) cartridges. (1000) cast bullets. (1000) cases. Mould Reloading dies. (4) cans Bullseye. All excellent $125.00. E. Keltner, Room 1308, 101 Park Avenue, New York City. 3-43

HARRINGTON AND RICHARDSON 32, 4" barrel, nickel plated, 25 shells, front sight missing fair in, out. First M. O. $20.00. W. H. Marcy, R. R., Boonton, N. J. 3-43

348 WINCHESTER 71, SLING, 80 ROUNDS 200 grain, excellent, $80.00. 250 Savage 99G, Marbletang, 80 rounds 100 grain, excellent, $70.00. 540 rounds 1918 Ammo., excellent condition, $18.00. Ernie Breyer, Fargo, No. Dak. 3-43

RARE OPPORTUNITY. ONE KING GEORGE VI Coronation Loving Mug. Very beautiful work of art. Only about ten in United States. Price $125.00 WANT—S. S. Lovell, Zipper, or plate back camera. C. Baldwin, 2420 Rebecca, Sioux City, Iowa. 3-43

$90.00 FOR CASE LONG RIFLE HS-HP. $80.00 for solid. Prepaid. Write. N. N. Johnson, Port Arthur, Texas. 3-43

FLAT TOP TARGET BISLEY, 7½", .44-40, EXcellent in good out, loading tools, $75.00. New, unfired, 32 Winchester Special Carbine, four boxes high speed cartridges, $40.00. WANT—New, 357 S. & W. Magnum, 6½", late issue, will pay good price. D. B. Conley, Swampton, Ky. 3-43

ANNOUNCING NEW CATALOG #22, describing over 1500 bargains 25¢. Modern and Antique Firearms, Accessories, War Relics. Binoculars. 10x46 Busch, $84.00. 6x30 Crown, $56.00. 8x26 LaVista, $46.00. .45-70 Ammunition, $2.00 box. 7mm, $1.50. Good .45-70 Springfields, $9.75. Springfield Service, $56.00 303 Ross, $28.00. 98 Mauser, $28.00. Fine Krag, $32.00. .22 Niedner Krag Sporter, dies $45.00. Few SS Lovells and Hornets. Fine Kentuckies to help solve your ammunition problem. Excellent S. & W. 1917, $42.00. 44 Special Triplelock, $46.00. 35 S. & W. Auto, $26.00. 380 Remington, $30.00. 45 Colt Auto, $42.00. Excellent Luger, $40.00. 9mm Mauser, $46.00. 25 Mauser, $26.00. Large selection Autos, Frontiers and C. & B. Revolvers. John Smith, Rambler Ave., Runnemede, New Jersey. 3-43

WINCHESTER, MODEL 1886, 33 W.C.F. RIFLE nickel steel barrel, circassian walnut stock, full pistol grip, fine checkering, Redfield receiver sight, Series 102, ¾ magazine. 60 rounds ammunition. Condition very good to excellent. Will ship prepaid for first money order for $40.00. Richard Terwilliger, 240 Laurel Avenue, Keansburg, N. J. 3-43

JOHNSON SEA-HORSE HD, 2½ TWIN, READY pull starter, excellent, $100.00. True Temper TA5, Speedlock handle, canvas case, Shakespeare Marhoff reel, excellent, assortment bass plugs, $20.00 Robert C. Brown, 1222 Garfield, Lynchburg, Va. 3-43

FOR SALE, SMITH "SPECIALTY", 12 GAUGE 28" full, modified, 14" x 1¾" x 1½", rubber recoil, ejectors, perfect, $85.00. Trade for 16, 20 equal value, or Browning O. & U. Burton Rand, Bryantville, Mass. 3-43

Jap's Eye View of a REDFIELD JUNIOR SCOPE MOUNT

★ The sturdy Redfield Junior scope mount is now standard equipment on American snipers' rifles—and that's bad news for the Japs and Germans too. The American soldier, traditionally the world's best rifle-shot, will know how to make the most of this precision equipment—and chances are he'll recognize an old favorite, because REDFIELD mounts have been the choice of America's leading sportsmen for many years. And remember—ALL Redfield production now goes to the Armed Forces. We will have no sights to sell for civilian use until after the war. However we CAN send you the Redfield shooting guide and sight catalog for your sporting library. Send for your copy today. It's FREE—and it's packed with interesting and helpful information about shooting.

REDFIELD GUNSIGHT CORP. 3315 GILPIN STREET Denver, Colorado

LATE MODEL 54 WINCHESTER CALIBER 30 Gov't. 06, excellent inside, very good outside, M. O. $60.00. Kenneth Larson, Grantsburg, Wisconsin. 3-43

FOR SALE, EXCELLENT (BELGIAN) BROWNing 12-30" full, automatic ribbed barrel, $55.00 M. T. Woodsman, excellent, with sheepskin holster, $60.00; will take S.A.A. 7½" barrel in trade. Hans Behr, Riverside, Sandy Hook, Conn. 3-43

EXCELLENT ACE WITH EXTRA FRANZITE grips, clip, holster, 100 cartridges. Price $60.00 money order. Richard Dion, 23 Glendale Ave., Salem, Mass. 3-43

S. & W. 44 SPECIAL MILITARY 6½", BORE excellent, blue 90%, $45.00; fine custom Hi-Wall 218 Bee, perfect, unfired, 100 cartridges, $55.00; 100 Lubaloy 270 cal. 150 gr. S.P. cartridges, $12.50; 80 Super speed ditto, $10.00 Books: Hatcher's "Textbook," $5.00; "Ed McGivern's Book," $4.00; Dr. Hudson's "Modern Rifle Shooting," $2.00. WANT—70-'06 Lyman Alaskan, Targetspot, Super Targetspot. Harold Newby, 736 Garfield, Denver, Colorado. 3-43

WINCHESTER 94 .30-30 CARBINE, NEW. Factory carton. Two boxes cartridges. $42.00 express collect. Willard Sherman, Castile, N. Y. 3-43

TEN SINGLE SHOT RIFLES FROM PERSONAL collection. Winchester Cartridge Board, .30-06, .44-40, .32 Special Cases. '06 Bullets. Send stamp for prices. 52 H.B. Scope, $95.00, excellent. WANT—38 Exp. Winchester, Remington Hepburn action, Vernier sights. Old gun catalogs. S. D. Bornslaeger, 3811 No. 21st., Milwaukee, Wis. 3-43

WINCHESTER 70, .250-3000, STANDARD grade, 20" barrel, perfect, 60 cartridges, $75.00. Winchester 94, .30-30, Carbine, excellent, $35.00. Winchester 70, .30-06, standard grade 20" barrel, Redfield ramp front, perfect in, excellent out, 900 bullets, $80.00. WANT—270 Winchester Bullets. Edward Johnson, R.F.D. #1, Sparta, Wisconsin. 3-43

SELL REBARRELED SPRINGFIELD SPORTER, Bishop high comb stock, Hensoldt Dialyt Telescope Sight in Niedner mount, Lyman 48, sling and some ammunition. Excellent condition. $100.00. Want—Graflex Camera. Geo. C. Shumaker, Alamosa, Colo. 3-43

WANTED .380 A. C. P. AMMUNITION, WRITE giving price and quantity. A. B. Gold, 72 Mall Street, Lynn, Massachusetts. 3-43

WANTED—WINCHESTER 21, 12 GA., VERY good or better. Redfield 70 Hunter Knobs for Win. 94. D. A. Armbruster, 420 S. 3rd St., Rockford, Ill. 3-43

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54 WINCHESTER '06, CARBINE, VERY GOOD, worn on guard and plate, $50.00. 45 Colt '17, rough home blue job, extra barrel new, old holster, $20.00. 45 Commercial Smith '17, excellent in, good out, 44 shells, holster, $40.00. Wm. B. Parker, Conway, N. H. 3-43

KRAG SPORTER. 25 inch barrel, good inside, reblued. New Bishop stock, sling. Weaver 29S scope, T mount. $55.00. M. H. Huffman, Dunlap, Illinois. 3-43

COLT ACE, EXCELLENT, $45.00. B. & L. Draw Tube, Badger stand, excellent, $30.00. Trade Remington Sportsman 16x28 full, excellent for Browning or Remington Sportsman 16 with rib. A. J. Cook, Delaware, Okla. 3-43

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FOR SALE: MODEL 70 WINCHESTER .30-06 Heavy Barrel Target Rifle, never used, Lyman sights, with 60 cartridges, $90.00. Cost me $140.00. Ed Bayliss, Hatfield Manor, Salisbury, Md. 3-43

21J. HAMILTON, NO. 992, R.R., 16 S., $36.00; 21J. Hamilton, No. 940, R.R., 18 S., $24.00; 17J. Hamilton, No. 974, 16 S., $24.00; 17J. Longines, 16 S., $28.00; 17J. Elgin, 16 S., $22.00. All open face, yellow gold, just cleaned and oiled by jeweler. Paul Schweer, Donnellson, Iowa. 3-43

REMINGTON MODEL 14-A, 25 CALIBER, 60 cartridges, Lyman sight, good to very good, $35.00. New Remington Model 12, 22 caliber, 100 cartridges, Lyman sight, $35.00. Colts 380 Auto, good, 80 cartridges, $20.00. 12 Gauge, single, 50 shells, $12.00. Field Glasses, like new, case, 4X, $10.00. Ken Nelson, Bennington, Nebr. 3-43

220 SWIFT, WINCHESTER 54, NEW WEAVER 29S scope, special low mounts, excellent, 100 rounds ammunition, $88.50. Genuine Guernica Automatic pistol 7.65mm, very good, 40 shells, 2 magazines, $22.00. WANTED—S. & W. 22 Kit Gun or K-22. Dr. R. C. Bakkum, Waukon, Iowa. 3-43

FIREARMS FOR COLLECTORS. PRINTED, illustrated catalog #7, 1,100 items, $1.00. Large descriptive list 20¢. Far West Hobby Shop, 406 Clement, San Francisco, Calif. 3-43

PERFECT: FECKER 3x18" ¼ MIN., $42.50. Excellent: Remington 12 Gauge Double Hammerless Hi-Pressure barrels, $37.50. Standard 52 17A, $45.00. Good: 97 12-30", full, $30.00. Fair: 30-30, box shells, $18.00. Marlin 40-65, $14.00. Poor: Winchester 38-56, $9.50. Relic 1873, $3.00. 20 boxes Remington 38 Sp. Wadcutter, $1.75 box. Regular 38 Sp., $2.00 box. 45 boxes 22 L. R. shot cartridges, 60¢ box. Other calibers. Write your wants. Stamp appreciated. Ernest Juola, Eveleth, Minnesota. 3-43

ORIGINAL B.S.A. 22 TARGET RIFLE #42384, perfect inside, outside very good, very accurate. Lists at $125.00 Stoeger's No. 33 catalogue. Money order for $45.00 takes it. John Sohm, 1241 Belvidere St., Detroit, Mich. 3-43

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75 WINCHESTER SPORTER, MALCOLM 6X Scope, special extra low nonclick adjustable mount, 1¼ leather sling, improved detachable swivels, no metal sights or front ramp, excellent, cheap at $45.00. Another 75 Sporter, same equipment except sling is 1" and does not have detachable swivels, excellent, $45.00. 10X Fecker 1⅛" complete with ¼ minute click mounts, dust caps, $50.00 John F. Ross, Shelby, Miss. 4-34

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M-70 KILBOURN-HORNET, 330 WEAVER, B mounts, sling, very good, Pacific reloading tool, K-H dies, shell trimmer, .38 Spec. dies, 150 cases loaded 41 gr. Sisk, 65 empties, 100 Sisk 41 gr. bullets, 75 primers, ½ lb. powder 4227, $134.50. M-40 Winchester 12 with Weaver choke, two tubes, like new, Hawkins recoil pad, sheepskin case, 250 shells, 25 Obuck, 25 BB, other 6's and 7½, most Max. loads, $92.50. Don Kempton, Box 526, Enid, Oklahoma. 3-43

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HIGH QUALITY ITEMS. WILL NOT SPLIT groups. Money orders or certified checks. Stamped s/a envelops please. Express collect examination privilege. Standard 70, Alaskan, G. & H. DL mounts, open sights, sighting shots only, all perfect, $160.00. Remington 30SL, Alaskan, Pachmayr Universal factory mounted, Lyman 48 and ramp, selected, sling, QD swivels, all excellent to perfect, $130.00. Target 70 Swift .220, blocks, sling, no irons, excellent plus, with 546 custom loads: 346 Smith (296 50 gr. 19 55 gr. 31 65 gr.) 200 equal quality 50 gr. all WM-8-S bullets, 100 new primed cases, $160.00. 23D Savage Hornet with 29S in new factory mounted B mounts, V.G. to excellent, no irons, 2 magazines, 860 unfired Remington factory KB SP and HP mixed, 50 empties fired once, $85.00. Mossberg variable 4-6 power rifle scope, excellent, $13.00. 20 KB 35 Remington 200 gr. SP, $1.50. 58 30-06 KB 110 gr., $6.00. WANT—Up to 500 new Varminter or 250-3000 cases, or will buy loaded cases at reasonable price; no reloads; at least V.G. Remington Double Derringer. Member, George W. Busbey, Quarters 327-A, Fort Riley, Kansas. 3-43

DELUXE ITEM. 2-R LOVELL MADE COMpletely by Hervey Lovell for me in August, 1942, on new Winchester Hi-Side action; chrome moly barrel, 1⅛" x 15/16" x 26", 16" twist, .224 groove diameter, double set Schuetzen type triggers, coil spring, special extractor, scope blocks, beautiful high comb check piece stock and fore-end of fine Turkish walnut, handsomely checkered, all by Hervey Lovell. Weight 12 lbs. Shot less than 300 rounds. Very accurate. $95.00. Gerald Cross, Lathrop, Missouri. 3-43

MODERN ARMS SALE. HIGHEST GRADE Merkel Bros. imported 12 Gauge Over Under Shotgun. 30" Krupp steel barrels, full and modified, ventilated rib with ivory sights, ejector, selective single trigger. Full game engraved. Fine Circassian pistol grip stock with recoil pad. Measurements 14½"x1⅝"x1¾". In original trunk case. Excellent. $185.00. Imported Subl 16 Gauge Ddl. Hammerless Shotgun, 28" Krupp steel barrels modified and improved cylinder. Crossbolt action. Horn guard, Indicators. Measurements 14½"x 1¾"x2½". Very good. $85.00. Springfield .30-06 Sporter. New selected Winchester barrel, Redfield ramp front, Lyman 48 rear. Fine sporting pistol grip stock. Excellent. $85.00. Kimball Arms Company, Woburn, Mass. 3-43

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IDEAL 7 CAVITY MOULD #360344, $12.00; 200, .25-20 S.S. Cases, new $8.00. WANT—Winchester A5 or Lyman 5A Scope; Pacific Dies all calibers; Jacketed Bullets; Empty Cases; Primers, etc. Edward Lucas, Route 19, Box 88B, New Brunswick, N. J. 3-43

NEW .280 DUBIEL MAGNUM MAUSER HEAVY Barrel Sporter by Dubiel, Zeiss Zielklein, Redfield mount, deluxe stock, proof-fired, accurate, $250.00. Woodsman 6½", $45.00. Sporter barrel, $25.00. 50 amp. 6 volt H.D. Generator meter, $60.00. 2 very good .35 Caliber Remington Model 8 Rifles, $47.50 each. Stamp please. Edward Anderson, 1041 Boyd Ave., Fresno, Calif. 3-43

.30-06 ENFIELD, RAMP, REMODELED, checked stock, sling, excellent, canvas case, 200 cartridges, $65.00. WANT—M81A Remington .35, and cartridges. Capt. Buck Brown, Rt. 1, Largo, Fla. 3-43

CUSTOM STOCK FOR MODEL 70, EXTRA fancy walnut, cheekpiece, Monte Carlo comb, horn tip, trap buttplate, steel grip cap, no checking, used two trips, excellent, $25.00, cost $47.50. Heavy leather saddle scabbard with cap for Model 70 or similar. Used two trips, good, $12.50, cost $20.00. A. H. Peterson, 103 28th Ave., Spokane, Wash. 3-43

WINCHESTER 61, EXCELLENT IN, GOOD OUT, with 500 shorts and 500 longs, $30.00. Savage 19, excellent in, good out, oil finished stock, grip cap, 500 long rifles, $40.00. Buck Thomas, Box 452, Burlington, North Carolina. 3-43

UNFIRED 44 REMINGTON PERCUSSION, SIX cavity mould, nipple wrench, screw driver, cleaning rod, plywood case, $45.00. Needle Gun, short stock, good, $25.00. Sharps Carbine converted to center fire, very good, $15.00. C. G. Battles, Wellington, Ohio. 3-43

.45 GOV'T. AUTO, KING ACCURIZED, KING adjustable rear, undercut front sight. Trigger shoe, arched housing, extra clip, very good outside, excellent inside. Holster, Pacific dies, bullet seater, sizer, powder measure 3.5 gr. Bullseye. Hensley two cavity mold 200 gr. Crawford bullet. Ideal lubricator and sizer for same. All equipment new condition. 200 fired cases, 1000 Peters 20 X primers. Sold as a unit only, $95.00. First money order takes it. Winchester 75 Target, excellent. Winchester 8X Scope and iron, $45.00. Marlin Mod. 90 O. & U., 12 Ga., 26" barrels, I. C. & M., excellent, cleaning rod and case, $50.00. Winchester 94 remodeled, 20" barrel, shotgun stock, good in and out, two boxes Winchester 170 gr. .30-30 Silvertip. $45.00. J. W. Greeley, 1 Las Aromas, Orinda, California. 3-43

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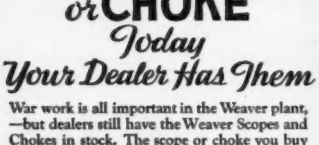

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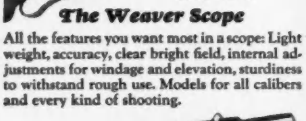

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.22-45 FLOATING CHAMBER CONVERSION Unit with late Model Commercial .45 ACP, Holster, Shells, $100.00; .38 S&W M&P 5", Holster, Shells, $45.00; .44 S&W Military, 6½", Shells, $45.00; .30 Rem. Mod. 8, Lyman Combination rear, $55.00; .30 Luger, 6" Dubiel target bbl. shells, $35.00; .30-40 Krag, $25.00. All above about excellent. .12 Ga. Belgian Browning, Ribbed bbl. Weaver Choke, very good, $55.00; Beautiful Ithaca No. 4, Single Trap Gun, 34" Ventilated bbl., Custom leather case, $85.00; Will trade this gun for other guns. Walter Price, 922 Rogers, Okmulgee, Okla. 3-43

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REMINGTON 550A .22 AUTO, PERFECT, $25.00. B flat clarinet. Boehm, $25.00, or ? George Diddens, John St., Freeport, Ill. 3-43

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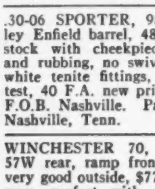

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WANTED—.22 CALIBER TARGET REVOLVER with adjustable sight; Smith and Wesson on .32 frame preferred; must be good or better. Send particulars. Lt. Eugene M. Glass, Ordnance Department, Sedalia Army Air Field, Warrensburg, Missouri. 4-43

.30-06 SPORTER, 98 MAUSER ACTION, SEDGley Enfield barrel, 48 rear, ramp bead front, Bishop stock with cheekpiece, finished except final oiling and rubbing, no swivels or sling, rubber recoil pad, white tenite fittings, gun never fired except factory test, 40 F.A. new primed cases, $85.00 money order, F.O.B. Nashville. Paul McQueen, 707 Setliff Place, Nashville, Tenn. 3-43

WINCHESTER 70, 30-'06 STANDARD GRADE 57W rear, ramp front, Whelen sling, perfect inside, very good outside, $77.50. Colt Match target Woodsman, perfect with sheepskin case, $65.00. B&L Drawtube spotting scope with B&L tripod, new, $40.00. Joseph D. Talarico, 38 So. 4th St., Reading, Pa. 3-43

SELL FIRST MODEL LEFEVER BY SCOTT, 10 gauge, very good, $50.00. Warner & Swasey scope with case and base for Krag, $5.00. Springfield .30 caliber, barrel new, balance good, $40.00. WANT—Target stocks for S&W Model 1891; 30-30 cases. S. L. Pierson, Box 1007, Oklahoma City, Oklahoma. 3-43

FOR SALE—EXCELLENT ITHACA 37T TRAP grade, pump, 12, Polychoke, $85.00. Two very good Krag Sporters 22" Pistol grips, checkered, peep and open sights, $27.50 and $37.50. Remington 12 .22, $20.00. Savage Pump, 22, $15.00. French Pin fire revolver, $25.00. Ammunition for sale with each gun only. WANT—220 Swift, double twenty. W. W. Turgeon, Oklee, Minn. 3-43

ONE 30-06 REM. RIFLE 30S, EQUIPPED WITH Noske #1A Scope and Noske mount, $125.00. One 12 gauge Parker shotgun, $45.00. Ammunition for both guns if wanted at reasonable price. Will answer all inquiries. C. E. Black, Fellows, Calif. 3-43

COLTS 38 ARMY SPECIAL, 6 INCH, BLUED, inside perfect, outside very good, holster, thirty-seven dollars. H. N. Spencer, 5539 Waterman, St. Louis, Missouri. 3-43

PARKER DHE 16, 30" MODIFIED, FULL, ivory sights, recoil pad, ejectors, straight grip stock of standard dimensions, excellent, $125.00. Clarence Cubbedge, Orlando, Florida. 3-43

ITHACA 20 GAUGE, DOUBLE BARREL AUTO and burglar gun, perfect condition, fired less than 15 times, original leather case, $35.00. This is a registered firearm having 10¼ inch barrel and can be sold only to a Federal, State or local official in compliance with the National Firearms Act. A. J. Weld, 2470 Mentone Blvd., Mentone, Calif. 3-43

BUSCH 10X BINOCULARS, $38.00; .224 KRAG Lightning, 5X Weaver, "B" mounts, fancy Stoeger stock, seater, cases, $48.00. Marlin 12 O. & U., 28", M. & F., oak leaf carving, $48.00, (quantity shells extra). Sell 500 Kleanbore 22's with each. 4x5 copying camera, lens, $14.00. 5x7 Elwood enlarger, lens, $30.00. 7.63 Mauser Military Automatic, 190 Super-X, $45.00. Robert Quigley, Brockport, N. Y. 3-43

52, STANDARD BARREL, 6 POWER FECKER Scope, excellent, slight check in stock. $80.00 or Rifle $45.00, Scope $40.00. Savage Model 219, excellent, Hornet and 12 Gauge, 35 Hornet and 2 boxes 22 center fire black powder cartridges, $22.00. 32 Colt Auto, Colt Monogram, pearl grips, good, $25.00. Model "C" Hi-Standard, holster, excellent, $25.00. H. & R. 22 Special, 522890, very good, $12.00. H. & R. .22 Premier, 3" barrel, poor, $5.00. Don Farnsworth, 531½ Island, Freeport, Illinois. 3-43

HI-STANDARD MOD. H-D, EXCELLENT, 4½" barrel, target grips, sights. Berdon special target recondition job, $45.00. Arnold L. Terhaar, 6425 Cross Street, Jacksonville, Fla. 3-43

REMINGTON AUTOMATIC MODEL 11 12 Guage, 5 shot, excellent in, very good out, 2 matted rib barrels 26" (improved cylinder) 28" modified, heavy tan leather carrying case with lock, recoil pad, jointed brass cleaning rod with oil can handle, first certified check $85.00. B. H. Esser, Washington, Mo. 3-43

COLT 38 MILITARY POLICE, 6½", EXCELlent, $45.00. .38 P. P., 4½", fancy grips, new barrel, good as new, $35.00. Genuine 7.65mm Luger, safety grip, latest model, excellent, $45.00. Savage 410 Model 220, 26", new, with full case of shells, $30.00. Money orders only. A. Elmgren, 4930 N. Winchester St., Chicago, Ill. 3-43

RELOADING TOOLS 32 SPECIAL, $5.00. Others. Moulds .32-40, .33, .38 W. C. F., $3.25 each. Good 44 Evans, $8.50. Fred Wainwright, Grayling, Michigan. 3-43

SAVAGE .300 CAL. MODEL 99, NEW BARREL, Lyman Alaskan Scope, Stith mounts, $110.00. Remington Sportsman Auto, 16 Gauge, $60.00. Colts Officers Model Target 38, $36.00. Colts .38 Cal. Auto, 100 shells, $30.00. Colt Bisley 44 Special, 100 shells, $40.00. Some .30-06 Ammunition in clips, all good, 2½¢. Some empties in .30-06 and 38 Special, 1¢ each. Carl Hayden, 119 Brentwood St., Portland, Maine. 3-43

WINCHESTER 52 SPORTER, EXCELLENT, #41006, $75.00. Few hundred empty .30-06 F. A. cases, late issue, fine condition, 1½¢ each. WANT—Winchester 115 primers. L. Masche, Ripon, Wisc. 3-43

7MM MAUSER 93 SPORTER 24" BBL., P. G. stock, ramp front, Redfield rear, inside very good, outside good to very good; another 21" bbl., $50.00 and $45.00. Ammunition at retail price. C. O. D. inspection allowed. S. A. Erickson, 8 E. 6th St., Oil City, Pa. 3-43

YOU SHOULD READ THE MUZZLE Loading Cap Lock Rifle. Price $4.85 delivered. N. H. Roberts, Author, Goffstown, N. H. 3-43

HARRINGTON & RICHARDSON .22 SPORTSman, double action, excellent in, good out, $30.00. R. L. Menville, Jr., 2003 Cloverdale Ave., Baton Rouge, Louisiana. 3-43

COLT O. M. .22, excellent, $50.00. CAMP PERRY, excellent, $45.00. 1,000, .22 ammunition sold only with each gun. Argus scope, extra 12.8 eyepiece, leather case, Freeland stand, all perfect, $65.00. Ithaca 37-T, 12 gauge, perfect, case, $85.00. S. J Lanning, 2015 W. Horne, Sioux City, Iowa. 3-43

7X35 BAUSCH & LOMB BINOCULARS, $85.00. 33X Vion Spotting Scope, $45.00. Both new and in perfect condition. D. P. Branscome, Roanoke, Va. 3-43

ENFIELD .30-06 SPORTER, BISHOP CHEEK rest stock, 29S Scope, B mounts, excellent in, very good out. First certified check, $65.00. Member. B. H. Esser, Washington, Mo. 3-43

WINCHESTER 70/06 "Super" Grade. Noske 2¼X. G&H double lever mount. Selected beautifully grained stock. Carrying case for scope. (6) boxes 110 gr. (3½) boxes 180 gr. Silvertip. (100) commercial cases. All perfect. Satisfaction guaranteed, $200.00. E. Andrews, 2707 Barnes Avenue, Bronx, N. Y. 3-43

WINCHESTER 70/06 "Super" Grade. 29S Weaver. (6) boxes 110 gr. (70) late F. A. (125) custom loads. Perfect in. Excellent out. $135.00. Also have all components for reloading, at extra cost. E. Keltner, Room 1308, 101 Park Avenue, New York City. 3-43

STAMP FOR LIST MODERN FIREARMS, Tools, Powders, etc. WANT—Newton Rifle and parts; 22 Pump, Kit Gun; Canoe. Harold Peterson, East Providence, R. I. 3-43

SELL MOSSBERG SPOTTER, BOTH CAPS slightly marred, otherwise perfect, $22.00. Stand, $5.00. Want B&L Prismatic and Stand. Might use Weaver 440 Medium CH or similar with low mount for W HS SS action. Wm. J. Sertl, Jr., c/o The North Side Bank, 6809 W. Florissant Ave., St. Louis County, Mo. 3-43

ONE 1873 WINCHESTER REPEATER 22 LONG, Octagon barrel. Diller relined. Barrel perfect, outside, good, $25.00; one 1873 Winchester repeater 32 W.C.F. 24 inch octagon barrel, Excellent except bore which is good, $25.00; One 1873 Winchester repeater 38 W.C.F. 24 inch half octagon barrel. Pistol grip, fancy checkered wood, outside good, bore poor, $20.00; One 1873 Winchester repeater 44 W.C.F. 24 inch half octagon, half magazine barrel, outside excellent, bore good, $25.00; one 1876 Winchester repeater 45-60 half magazine, half octagon barrel, outside excellent, inside very good, $25.00. Nellie B. Leavitt, 8 Ociom Ridge, Hanover, N. H. 3-43

PAIR MATCHED INTER-NATIONAL SPRINGfields, 06-22, $300.00; S&W, gold monogram, 32-6" target, perfect, $50.00; Unblued 30-06 Sporter barrel, $15.00; Springfield international set trigger, $10.00; Muzzle loading target rifles, includes "Finest in America", Stamp; Eastman 3A Autographic Kodak, case, $35.00; Eastman 4A, Speed kodak, 4¼ x 6½, Focal plane, B&L 5x8 Zeiss tessar, 11B 8¼, lens, $75.00; 30-06 components: primer, powder, case (fired), bullet, $7.00 per 140. TRADE—500 small pistol primers for large. WANTED—Sizer lubricator 45, powder measure. C. R. Ripley, Dennison, Ohio. 3-43

NEW WINCHESTER 25-20 Single Shot primed cases or formed to R2-Lovell, $3.50 per hundred. 86 grain 25-20 metal patch, soft point bullets, $1.50 per hundred, bullets pulled from 25-20 cases. R. G. Knight, 2627 N. Hilton St., Baltimore, Md. 3-43

SELL—NEW SERVICE .44-40 NEW GUN, BOX cartridges, $45.00. S&W Single Action Target .32-44, 180 cartridges, more available, excellent out, perfect in, $37.50. 12 Ga. Winchester M-12 Magnum, excellent, $70.00. WANT—Fine Heavy Swiss Type Free Rifle .22 cal. Free Pistol. Deluxe or Engraved Winchesters. Stamp please. Lloyd Bender, Galion, Ohio. 3-43

ITHACA 20, 28, M AND F, EXCELLENT IN and out, $50.00. J. R. Durkee, 202 So. 3rd Ave., South Saint Paul, Minn. 3-43

SELL MY 29S WEAVER CROSS HAIR SCOPE, B mount for Winchester drill and tap. New last March. Price $18.00. E. D. Townsend, Northstar, Michigan. 3-43

U. S. 45-70 WITH REFINEMENTS, SHELLS, mold, and Winchester tool, accurate, F.O.B. $25.00; also 418 Stevens .22, Weaver 29S, F.O.B. $25.00. Write for description. American Rifleman since 1929. Six or seven copies missing, 2.00 per year. G. H. Spaulding, Box 1408, Lansing, Michigan. 3-43

OFFERING COLLECTION OF HIGH grade cased double muzzle loading shot guns by famous makers. Also listing some desirable flint and percussion rifles in shooting order. Specify which list wanted. Stamp please. Kimball Arms Company, Woburn, Mass. tf

FOR SALE—S&W .45 CAL. 1917, NEW, $35.00. 22 Varminter, shortened Enfield action, Lyman Alaskan, Excellent, $150.00. 97 Winchester 12, Good, $30.00. G.H.E. Parker, 30" 12 gauge, Single Trigger, Beavertail, Very Good, $150.00. WANT—8mm. Short Mauser rifle or short Mauser action. A. J. Backes, Langdon, N. D. 3-43

WINCHESTER 70-06, 48WJS REAR, KING POST reflector front, sling, Lyman scope blocks, perfect, $95.00. Winchester 75, 84A rear, Vaver 1175 front, sling, scope blocks, perfect, $42.00. Gardner E. Martin, Camden, Indiana. 3-43

SMITH AND WESSON 357 MAGNUM 7½ INCH barrel. Excellent inside and outside. Sheepskin case, Heiser holster, 210 cartridges, $95.00. George Oberfell, Box 110, Bartlesville, Oklahoma. 3-43

COLT'S DOUBLE BARREL RIFLE, CALIBER .45-70, very good to excellent, $250.00. 45 power Vion telescope, spots .22 caliber holes at 100 yards, $45.00. John A. Funck, Penna. Motor Police Barracks, Harrisburg, Pa. 3-43

COLT .45, LATE MODEL, NEW HOLSTER, 3 Clips, 1 Pocket, 700 Rounds, Excellent, $40.00. Zeiss Binoculars, 6x30, very good, with case, $85.00. Captain William H. Peters, 48-29, 58th Lane, Woodside, Long Island, New York. 3-43

MATCH TARGET WOODSMAN; ROPER MIcrometer click rear sight; Henshaw Beavertail trigger; Sheepskin Holster, Perfect, $60.00. Ship subject to inspection. Frank M. Harper, Jr., Box 1346, Raleigh, N. C. 3-43

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COLTS 45 AUTO. COMM. CLIPS, HOLSTER, 300 ctgs., $65.00; Colts Bisley 45, 4¾", blued, 100 ctgs., $42.00; Ten boxes 38 long Colt ctgs., $12.50; WANT—S. & W. 38 Outdoorsman, S. & W. 44 Spl., Krag empties, .30 caliber bullets. Ray Nelson, Roy, Utah. 3-43

B&L N. R. A. SPOTTING SCOPE, PERFECT Freeland Stand, $60.00. J. J. Kozak, 518 Perry St., Buffalo, N. Y. 3-43

KRAG ACTION FITTED BY NEIDNER WITH Springfield Sporter star gauge barrel, Inside perfect, outside excellent, 34 Lyman receiver sight shells furnished, price of gun, $65.00. Samuel H. Nite, Montezuma, Kansas. 3-43

FOR SALE—22 MATCH TARGET WOODSMAN, 500 L.R. Shells, $70.00; 22 Officers Model Colt, 500 L. R. Shells, $70.00; 38 Officers Model H.B. Colt, 800 empty cases, 300 loaded shells, $80.00; 9mm. Luger, 8" barrel, 40 shells, $45.00; 348 Winchester, 100 shells, $70.00; 12 G. Winchester Pump Magnum, 150 shells, 3 inch, $75.00. Guns all very good to excellent. R. J. Martin, Roscommon, Michigan. 3-43

SMITH AND WESSON 38 SPECIAL 6½" BBL., Perfect; 100 rounds Ammunition, holster, $46.00. Remington 12-30" Rib Pad Perfect, $67.00. Rufus Anderson, Seward, Nebraska. 3-43

200 MODERN GUNS ON HAND, LIST, Stamp. Hersheys, Orrville, Ohio. 3-43

LATEST UNERTL 1¼" RIFLE SCOPE WITH Lee Tackhole Dot, $80.00. Excellent condition. Used only short time. Sam H. Dorsett, 1708 Doune Street, Winston-Salem, N. C. 3-43

"AS ISSUED", TWO WINCHESTER ENFIELDS, perfect, $47.50 each. Springfield Service, excellent, $50.00. Springfield Gallery, .22 short plus twenty chambers, $30.00. Springfield Mannlicher Type Sporter, 48 and ramp, $45.00. Ammunition: 60, .25 Remington Rimless, $3.00; 60, 8X57 Mauser, $6.00; 150, .32-20 Black, $4.50; 400, .22 shot H.S., $4.00; 80, .30-40 Commercial, $7.75; 4, .45 Auto Magazines, $3.50. Satisfaction guaranteed. F.O.B. WANTED—Primers. Dies for Schmitt Mod. 24. Collection cartridges. Edmund Fickert, Toms River, New Jersey. 3-43

GOOD COLT 45 S. A. WITH HOLSTER, $35.00. Good 9mm Luger with holster, $35.00. WANTED—Government Model Colt 45 Automatic, condition immaterial. O. L. Kline, 1915 McKinley Ave., San Antonio, Texas. 3-43

MODEL 98 MAUSER RIFLES

100 model 98 Mauser issue rifles, 8 mm. cal., good bores, $22.00 each. Actions in the white (very good), $18.00. Actions with all numbers identical, $20.00. Mauser M/98 stocks, with metal parts, $3.00. Mauser, Springfield, Enfield and Krag parts list FREE. Win. 70, 48 Lyman. 300 H. & H. Magnum, new, $92.55, prepaid. Win. 70, .22 Hornet Standard, $78.55, prepaid. Govt. slings, new soft leather, $1.25, prepaid. Wholen slings, ⅞", 1", leather, $1.50, prepaid.

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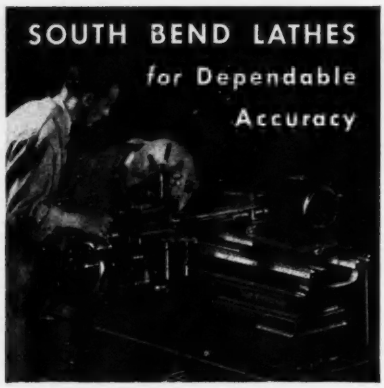
30-06 ENFIELD, PLAIN SORTER STOCK, sling. Custom solid mounts for ¾" scope, without scope, $50.00. Excellent in, very good out. WANT—.270 ammunition or components. Alfred Streich, 535 E. 12th, Casper, Wyoming. 3-43

100 COPIES RIFLEMAN, $7.50. MOD. 344 Weaver, T-2 Mount, $9.00. Excellent, 6X, 1¼" Obj. Litschert Scope, ¼" Click Mounts, Dot Reticule, $45.00. Excellent, 218 Bee, H. W. Winchester Action, Bishop Stock and Forearm; 45 loaded, 100 empty cases, $50.00. Scope and Gun, $90.00. Claude G. Kaelin, Buhl, Idaho. 3-43

WINCHESTER 70-06, 48WJS, very good, $80.00; Enfield, very good, stock cut down, $30.00; Stevens 417-1, 48L, action fair, otherwise very good, $30.00; Sportsman 12 gauge, excellent except marred screw, Polychoke, 475 shells, $110.00. WANT—Very good to perfect, Winchester Target 70-06, no iron sights, Alaskan All-Weather with G. & H. mounts; Detective Special; Argus; Primers; OMT; ¾" Fecker, Jr. Targetspot. William Dresser, 8079 Warren, Center Line, Michigan. 3-43



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SAVAGE AUTO M/7 .22 CAL., 24" BARREL, case, 6 clips, extra parts. Excellent, $25.00. Robert Kraus, 901 Wisconsin Avenue, Racine, Wisconsin. 3-43

FOX DOUBLE 12 GAUGE WITH AUTO EJECtors X grade, $85.00. Colt police positive 38 special, $30.00. Ideal Mold, 280 Ross with some gas checks, $5.00. C. E. Lingenfelter, 1100 So. Home Avenue, Oak Park, Illinois. 3-43

K-HORNET, 23D SAVAGE DELUXE, FANCY Walnut Stock, 29S Scope, Stith Mounts, 1000 Primers, 500 Sisk Bullets, 200 Cases, Lyman Hand Tool, Neck Re-sizer, Gun and accessories, good to excellent, $80.00. Carroll Lemon, Box 2031, Southern Pacific Sanatorium, Tucson, Ariz. 3-43

FOR SALE—COLT BISLEY 44-40, NEW BARrel, $25.00. 700 Super X 22 Hornet cartridges, $25.00. Remodeled Winchester Enfield Sporter, good out, excellent in. Redfield receiver, and 29S scope, $50.00. Harold Plichta, Manistique, Mich. 3-43

410 GAUGE SPECIALTY GRADE L. C. SMITH double barrel, "perfect," $150.00. 20, 16 and 12 Gauge Belgium Double Barrel Shotguns, "perfect," bautifully engraved, fine workmanship, each $75.00. (Set of three $215.00.) Model 42, Winchester 410 gauge skeet, "perfect," $45.00. Ben Pecker, 100 Wall St., Bridgeport, Conn. 3-43

ITHACA 37 SKEET, VENTILATED RIB, 12 gauge, 30 inch barrel, ¼ choke, excellent, and case, $80.00. George Weipert, Box 812, Forsyth, Montana. 3-43

ROLLIECORD CAMERA #2, CASE, $85.00; 7MM Belgium cartridges, $1.00 per box. Frank Wilkinson, 82 Monticello, Buffalo, N. Y. 3-43

NORMANDIE 8X25 C. F. BINOCULAR. Leather case and straps. Brand new, $58.00. E. Keltner, Room 1308, 101 Park Avenue, New York City. 3-43

REMINGTON MODEL 32 OVER AND UNDER, two set barrels, skeet and field, single selective trigger, auto ejector, raised rib, pad, perfect condition, $175.00. WANTED—257 Roberts. Ralph Christopher, Weedsport, New York. 3-43

FLINT LOCK AND PERCUSSION. MUZZLE Loading Rifles. Good to Perfect Shooters, $20.00 and up. Lists 10¢. Hunting or Match purpose. Geo. Brullesauer, 3957A Castleman, St. Louis, Mo. 3-43

STANDARD 52 WINCHESTER, NON SPEED-Lock, checkered custom stock by Griffin and Howe, blocks, sling, factory sights, excellent in, very good out, 1000 long rifle ammunition, $50.00 money order. Thomas F. Woodhead, 4 East 7th St., Chattanooga, Tennessee. 3-43

WINCHESTER 52, FECKER SCOPE. EXTRAS. Strong case. Gun crank condition, $95.00. E. D. Upson, Madison, Wis. 3-43

REMINGTON 31, 12 GAUGE, NEW POLYCHOKE. custom straight stock, good, $60.00. 1916 D. W. M. 9M. Luger, 4", 50 cartridges, good, $35.00. S. & W., .22 Ladysmith, nickel, 3½", good, $25.00. C. O. D. Inspection, others. Life member. Floyd Amel, Shawano, Wis. 3-43

KRAG FULL LENGTH BARREL AS ISSUED, very good in, with Lyman 34 rear sight, cheek rest sling. 420 rounds of ammunition Peters and Winchester, $47.50. H. & R. Case for 10" USRA, like new, $3.00. 100 rounds 45 auto ammunition 38 issue, $5.00. WANT—30 Remington dies for Meepos Tool or Ideal Tools. F. H. Hoyt, 2315 E. 5th Street, Tulsa, Okla. 3-43

MAUSER 9MM, 5½" BARREL, 50 CARTRIDGES in clips, very good, $65.00. Smith & Wesson .32 cal., 4¼" barrel, fair, $12.00. Robert Kraus, 901 Wisconsin Avenue, Racine, Wisconsin. 3-43

BARRELS AND BARREL BLANKS, 22 to 375 calibers, Actions, Enfield, Mauser and Heavy S. S. Rifles, $10.00 up, Colt S. A. A.'s Bargains. Stamp for list. Mashburn Arms, 918 S. Oswego, Tulsa, Okla. 3-43

38 S. & W. SPECIAL, $47.50, COLT 45 AUTOmatic holster, $49.50, both perfect, Franzite grips, 50 cartridges. Perfect Enfield 30-06, 100 rounds, $55.00. Colt Woodsman, holster, 150 cartridges, $49.00. J. L. Shull, Tyler, Texas. 3-43

PAIR BALL BRAND WADERS, BOOT FEET size, 10, no snags, price, $15.00. Lyman 48 WJS sight for Winchester 70, as new, $12.00 .WANTED—Redfield Bridge Mount for Winchester 70 and Alaskan Scope, Winchester 30-30 bullets, 170 gr., SP; 30-06 bullets 150, 180, 220 gr. Sp. Clarence Helmericks, Loda, Illinois. 3-43

FOR SALE: STANDARD WINCHESTER 52, M. G. and 17A, stock slightly marred, otherwise perfect, $65.00. Two muzzle loaders, excellent, $15.00 each. S. & W. 38 hammerless, fair, $12.50. Ammunition 30-'06, '38 to '42, M1-M2-7¢. '35-M1-6¢. 45 A. C. P. 6¢. Complete #3 Ideal tool 38 Spl., excellent, $5.50. Pacific powder measure, $3.50. No trades. I. N. Wagner, Ashland, Ohio. 3-43

12 GAUGE W. SCOTT & SON LONDON double percussion gun, perfect, $25.00. J. G. Dillin, Media, Pa. 3-43

.45 COLT AUTO GOVT. SHOT 50 TIMES, FOUR extra clips, 200 cartridges, holster, $55.00; Woodsman 4½", brand new, with two extra clips, 200 Hi-Speed, $48.00; issue Krag (new barrel), $26.00; Springfield Sporter, 100 cartridges, $55.00. B. F. Cook, 1720 Overton Ave., Independence, Mo. 3-43

1886 WINCHESTER, .40-70, CARTRIDGES, $35.00; Colt .45 Commercial, ivory grips, cartridges, holster, $75.00; Vion spotting scope, $35.00; Jordan loading tool, dies for .22-3000, .38 S. & W. Special, 2-R, $30.00. J. E. Gebby, 46 S. Willowgrove, Dayton, Ohio. 3-43

RIFLEMAN 29-42, $12.00. SAVAGE PUMPGUN, 28B, 12 gauge, 30", solid rib, $40.00. Browning OU, 28". IC-M, twin singles, solid rib, $100.00. Fecker, 1½, 8X, ½ minute mounts, HP eyepiece, $55.00. Targetspot 8X, 4 point mounts, $50.00. Winchester HB 52, adjustable buttplates, trunk, $55.00. OMT 22 and 38, $55.00 each. Shooting Master 45, $60.00. Ortgie 765, $15.00. 930, 38 special shells, $7.00. ¼" electric drill, $17.00. Casco Electricraft rotary tool kit, $10.00. Following fair: American Bulldog 2" 38, $3.50. American DA, 2" 32, $3.50. Safety hammer HR 38, $3.50. Hammerless IJ, 3" 32, $7.00. IJ 3" 38, $7.00. Ott Weaver, 1332 Arkansas Avenue, Pittsburgh, Pa. 3-43

COLT 45 NATIONAL MATCH FIXED SIGHTS like new, $65.00; Colt 44 Special new Service Target 7½" barrel, excellent, $50.00; Enfield as issued, excellent, $35.00; L. C. Smith field grade, 12 gauge, 30" barrels, modified full, 4 boxes shells, excellent, $50.00. Trade any above for heavy barrel percussion target rifle with accessories of same value. Joseph Spicer, 17 Dewey Ave., Wharton, N. J. 3-43

SELL—EXCELLENT B. & H. 8 M. M. FILMO 2.5 Lense, case, $100.00. Excellent 45 SAA Colt 45, 7 inch, extra cylinder for 45 Rimless Ammunition, $75.00. Krag Carbine as issued, $25.00. Cougar Hide Rug with snarling head mounted by Jonas Bros., sell for taxidermy costs, $55.00. Lt. H. S. Campbell, Life Member, 5001 W. 67th St., Chicago, Illinois. 3-43

CONTAX TELEPHOTO LENS, 135 MM. F4 Sonnar, like new, $100.00; Winchester 70, .257, excellent, cartridges, $75.00. WANT—DHE Parker, 30-30 Carbine. F. F. Tubbs, 3647 Lilac Ave., Lansing, Mich. 3-43

WINCHESTER 64, SPECIAL, $65.00; K-22, $65.00; Kit Gun, $45.00. All excellent. W. Thomas, 912 Penn, Reading, Pa. 4-43

J. P. SOUSA GRADE ITHACA TRAP GOLD Inlay Circassion Stock and Fore-end, perfect condition, 34" Stock, 14½x1½x1½, 8 lbs. 6 oz. Cost $750.00; $400.00. H. J. Ferry, Longmeadow, Mass.

FOR SALE—30-'06 ENFIELD RIFLE, BARREL by Ackley, 26 by ⅞ at muzzle, upcock action, adjustable trigger, Bishop beaver tail stock, scope blocks, shot less than 100 times, 100 rounds of ammunition, $70.00. Collectors Maynard s. s. 22 center fire rifle, good shooting order, 150 rounds of ammunition, $15.00. 500 Winchester No. 5, 30-30 primers; 300 Winchester No. 6 shotgun primers; 600 U. M. C. No. 3 shotgun primers; lot, $5.00. WANTED—.30 caliber gas checks. 4227, 2400, 4198, Hi Vel. No. 2 powder, 25 caliber bullets. J. R. Thompson, Burt, Iowa. 3-43

.45 AUTOMATIC, MECHANICALLY EXCELlent, otherwise good, $30.00; New Mirakel 8x30 "Miroculer" featherweight binoculars, now cost $71.50, sell $45.00; Good Colt .38 D. A., handles wadcutter .38 Special, $21.00; Remington 12 gauge double hammerless, steel barrels, good, $25.00; good 4-power scope, $10.00; fancy fullstock Kentucky, $15.00; plain flintlock Kentucky, $22.00; heavy percussion match rifle, complete, $23.00; ten other nice Kentuckys, $7.00 to $18.00. Several C. & B. Revolvers. WANTED—Cheap .30-06 Springfield or action, fittings. Barrel, stock immaterial. Mauser. Other guns. Parker Snyder, Celina, Ohio. 3-43

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REMINGTON SPORTSMAN 12 GAUGE, 26" barrel, polychoke, recoil pad, sheepskin case. Very good to excellent, $75.00. Robert Kraus, 901 Wisconsin Avenue, Racine, Wisconsin. 3-43

COLTS WOODSMAN LONG BARREL, HEISER holster, Pointer grips, excellent, $42.50; Winchester 63 auto. long barrel, Weaver 29-S, perfect, $50.00. Krag carbine action, barrel good, outside poor, 65 commercial shells, $20.00. Noske Mascot, 3X, Crosshairs, excellent, $25.00. WANT—410 or 20 gauge double. Remington or Browning 20 gauge auto. Milton Pittman, Columbus, Nebr. 3-43

FOR SALE: RIFLE, SPRINGFIELD, 64456, BARrel shortened 2", stock lifted for better cheek rest, inside very good, outside fair, desirable hunting rifle, $28.00, including 40 cartridges. S. B. Sykes, 840-S Canal St., Chicago, Illinois. 3-43

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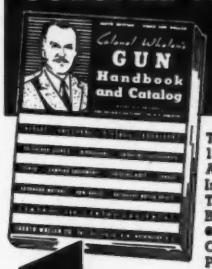

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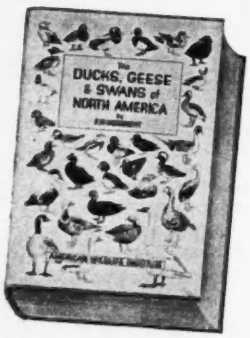

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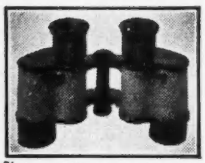

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WANTED—ANTIQUE FIREARMS: POWder flasks, gun books. Will buy entire collections, cash. James Serven, Box 1777, Santa Ana, Calif. tf

WANTED—ALL WEATHER MODEL LYMAN Alaskan scope. Must be in new or perfect condition. D. S. Hopkins, East 831, Rockwood Blvd., Spokane, Wash. 3-43

WANTED—HIGH GRADE HAMMER 10, STEEL barrels; Hammerless ejector, 20 long barrels, 410; 2½ inch shells, 7½ to 9 shot. George Canfield, 5 Stolls Alley, Charleston, South Carolina. 3-43

WANTED—LYMAN ALASKAN, WEAVER 330 OR like scope for Remington 81. Wm. Holmes, Madison Ave., Kingston, N. Y. 3-43

WANTED—45 COLTS AUTOMATIC, OR "45" Revolver (Colt or S. & W.); 44 sp. or 38 sp. revolver. Give description and price. J. Duffy, 1321 Delafield Pl., N. W., Washington, D. C. 3-43

WANTED—WINCHESTER MOD. 12, 16 GAUGE with solid raised rib. Good to perfect. Claude Shuff, 620 Franklin Street, Johnstown, Pa. 3-43

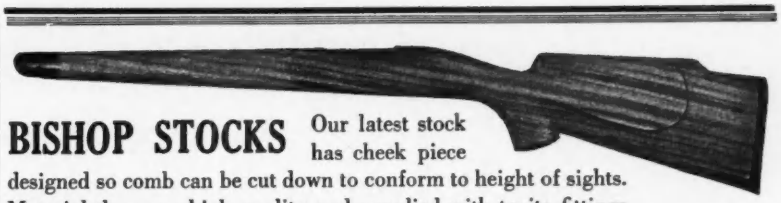
WANTED—HIGHEST CASH PRICES PAID for Target Pistols, Revolvers, Rifles and Antique Guns of all kinds. Ship for estimate. Public Sport Shops, Dept. R-58, 13 S. 16th St., Philadelphia, Pa. 3-43

WANTED—.270 WINCHESTER WITH AT least five boxes cartridges. Must be perfect. Will trade $100.00 Lord Elgin Wrist Watch worn only 90 days. Jack Gehrt, 5870 Washington Boulevard, Indianapolis, Indiana. 3-43

WANTED—ONE THOUSAND .22 LR HOLLOW Point Cartridges. New fresh stock and Western Super-X or Kleanbore Hi-Speed only. Quote price, transportation prepaid. Cash with order. M. G. Stewart, Box 1108, Shreveport, La. 3-43

WANTED FOR CASH—PRISM BINOCulars, Field Glasses, Microscopes, Sextants, Surveyors and Builders Levels. Give description and price in first letter, all mail answered. Big Ben Mercantile & Loan Co., 179 Third Street, San Francisco, Calif. tf

WANTED—SHOTGUN PRIMERS, GOOD 10 GA. Double ¾ Fecker 6 power. Sell or trade: Remington 12 Gauge Auto, good in, fair out, new block, $35.00; LaSalle Higher Accounting, $50.00. H. North, 621 3rd Ave., S. E., Aberdeen, So. Dak. 3-43



BISHOP STOCKS Our latest stock has cheek piece designed so comb can be cut down to conform to height of sights. Material the same high quality and supplied with tenite fittings attached. For all bolt actions. Price $5.00. Mannlicher type $7.50. Shipping weight of stock, 4 pounds. Catalog ready.

E. C. BISHOP & SON **Warsaw, Missouri**

IDEAL SIDE LEVER SAFETY

Designed for 70 Win. Operates freely. Easily installed. Complete instructions. $2.50 postpaid or installed in bolt. Available out of stock. Folder. Due to war restracts only a few **TILDEN MOUNTS** now available. Write **TILDEN MFG. CO., 2750 N. Speer Blvd., Denver, Colo.**

WANTED—ZIELMULTI OR ZIELMULTAR ZEISS Scope. Also .220 Swift. E. A. Hatton, Box 243 San Antonio, Texas. 4-43

WANTED—VERY GOOD, OR BETTER, 7.62MM Russian Rifle or Carbine. Jack Lindstrom, Tiburon, Calif. 3-43

WANTED—COLTS COMMERCIAL 45 AUTO, excellent. Ensign William Moroney, 1303 Bolling Ave., Norfolk, Va. 3-43

WANTED—TO BUY OR TRADE FOR REMington Model 14½—3840 Rifle with cartridges. H. H. Ott, Gresham, Oregon. 3-43

WANTED — ANTIQUE ARMS, COLLECtions or single pieces purchased at fair prices. Give full description. Kimball Arms Co., Woburn, Mass. tf

WANTED—218 BEE CARTRIDGES. TRADE—32-20 No. 3 Reloader for 218 Bee. William Miller, R. #5, Decatur, Ind. 3-43

WANTED—12 GAUGE MAGNUM, FULL, IN good to very good condition, describe gun. WANT—Barrel for 12 Gauge Remington Automatic. L. M. Peterson, Galva, Illinois. 3-43

WANTED—LATE, EXCELLENT, BLUE S. & W. 38 Special M. & P., round butt, 2" barrel. Colt Detective Special, same. George Bridges, 632 Washington Ave., Bremerton, Washington. 3-43

WANTED—COLT AND S. & W. REVOLvers, Automatic Pistols, .30-06 Cartridges, .45-70 Cartridges, Springfield Rifles, Enfield Rifles, Krag Rifles, Cameras any make. Warshal's, First and Madison-BB, Seattle, Wash. 3-43

WANTED—38 S. & W. HAMMERLESS OR SPEcial, Railroad Watch, Long Ky. Rifle. Make best price. C. M. Pickel, Jr., Harriman, Tenn. 3-43

WANTED—.280 ROSS CARTRIDGES, CASES and Bullets. Ellwood Holbrook, 4517 Pleasant Valley Court, Oakland, Calif. 3-43

WANTED—MATCH TARGET WOODSMAN. Will pay fifty to sixty dollars. Very good to perfect condition. Harold Burnham, 110 No. Olive, West Palm Beach, Fla. 3-43

WANTED—COLT TARGET WOODSMAN, 4½ or 6½ inch barrel, perfect condition. Estal Hatfield, O'Keeffe, W. Va. 3-43

WANTED—WILL PAY CASH FOR BROWNING Sweet Sixteen. Must be excellent to perfect. Will sell Remington 30-S, .257 Roberts, Lyman 48, excellent, 80 rounds 87 grain Kleanbore, 60 rounds 100 grain Kleanbore Core Lokt, 60 empties fired once; all for $90.00 express C. O. D. with examination privileges. Hugh H. Monahan, Farmers National Bank, Salina, Kansas. 3-43

WANTED—CASH FOR CAMERAS, BINOCulars, Telescopes, Firearms. Good Guns wanted in trade. National Camera Exchange, 11 So. 5th St., Minneapolis, Minn. 7-43

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Wm. Morrow & Co., 386 4th Av., N. Y. C.

WANTED—COLT SINGLE ACTION FRONTIER, 32-20 cal., very good. Don Brand, 4141 Ames, Denver, Colorado. 3-43

WANTED—22 BANKERS SPECIAL; ALSO 22-32 Kit Gun; advise price, rush. SELL: Hi-Standard, H. E., 4½", H. B., special stock, hammer, King red square front, beauty, perfect, first $65.00. 38 O. M., H. B., excellent, $65.00. WANT—45 Remington, Powder Ball, good condition, Muzzle Loading Rifle, describe, price? Leonard Travis, La Salle, Ill. 3-43

WANTED—PISTOLS, WILL PAY $35.00 OR more for K-22, Ace, Match Target or other 22 or 38. $75.00 for 357 Magnum. Also want other pistols, .30-06 rifle, scope and ammunition. T. A. Hawn, Box 35, Station A, Los Angeles, Calif. 6-43

WANTED—PRIMERS, RIFLE, PISTOL, SHOTgun. Cases, 30-30, 348, primed 12 gauge bullets, 30 caliber expanding. Double barrel, 410, 28, and 10 gauge Magnum. Pay top prices. Jim Clark, 2029 W. Fondulac Ave., Milwaukee, Wisconsin. 3-43

WANTED—LATEST O. M. COLT .22 or M. T. Woodsman, v. g. or better. I. D. Goodwin, 1514 Dormont, Pittsburgh. 3-43

WANTED—500 WESTERN 209 SHOTGUN Primers; 1000 small rifle primers. Ralph Engel, Ida, Mich. 3-43

$1,000 FOR YOUR IDEAS In the Big Marlin Gun Contest!

The Marlin Firearms plant is now 100% on war production.

Now here's a chance for you hunters and target shooting fans, to *cash in* on your knowledge of guns! Marlin—always on the lookout for new ideas to improve sporting firearms—wants to hear from you. Sportsmen and gun dealers are cordially invited to join Marlin's big Gun Contest—with $1,000 in cash prizes to shoot at. And remember, many a good idea is simple and easy to describe. Your chance is as good as the next fellow's to win a prize. It's easy to get in the contest—read the details below and send your entry in today! Contest ends July 1, 1943.

Jot down your ideas for improving any current model Marlin Gun. Follow the simple contest rules and send your entry in. If you wish, you may suggest new features, not at present in the line. A free catalog is yours for the asking, to review the features of Marlin Guns.

PRIZES IN THE BIG MARLIN CONTEST

The first prize is $500.00 in cash; second prize $100; third prize $50.00; fourteen additional prizes of $25.00 cash each. Seventeen prizes in all! (Marlin suggests the purchase of U. S. Savings Bonds with the prize money.)

JUDGING

Three famous gun editors—Bob Nichols of Field & Stream, Jack O'Connor of Outdoor Life, Maj. Chas. Askins of Sports Afield—will select the winning entries. All ideas for which prizes are given become the property of The Marlin Firearms Company and none will be returned. Prizes awarded for the seventeen ideas which are most valuable and practical, in the opinion of the judges. Duplicate prizes awarded in the event of a tie. WINNERS will be determined and prizes announced as soon as possible.

CONTEST RULES

The Marlin Gun Contest is open to all sportsmen and dealers in guns, with the exception of Marlin employees. Written suggestions must not exceed 300 words, the shorter the better. No limit to number of entries which may be submitted. Write name and address clearly on each suggestion. Mail entries to Dept. A, The Marlin Firearms Co., 17 East 42nd Street, New York City.

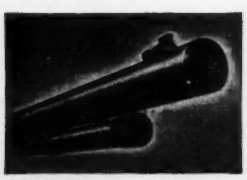
Entries must be received on or before July 1, 1943.

Win cash with your ideas! Enter the Marlin Contest today.

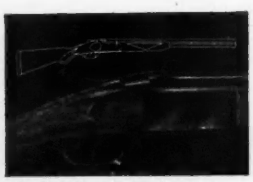
Marlin has been known since 1870 for progress in gun design, quality and dependability. Below are some famous Marlin features:

U.S. WANTS IDEAS TO HELP WIN THE WAR

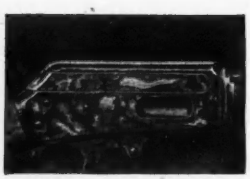
Marlin wants your ideas for SPORTING GUNS. *And if you have an invention or idea that will help win the war, write to the National Inventors Council, Washington, D. C.*



All Marlin rifles—lever action, clip and tubular magazine and .22 automatic, feature deep-cut, accurate, "Ballard" rifling.



Marlin's Over & Under Shotgun, in 12, 16 and 20 gauges and .410 bore, is hammerless, cocks on opening, has sturdy one-piece frame.



Marlin lever action rifles, in calibers .22, .30-.30 and .32 spec., have the solid-top, case-hardened receiver, with safe side ejection.

WANTED—REMINGTON AUTOMATIC RIFLE, cal. 35, prefer fancy grade, describe fully; also .35 ammunition and Pacific Tool complete, or dies and shell holder only for .35 Remington, .45-70, .30-06, .44 S. & W. Special, .32-20, .25-20. WANT—Moulds, bullets, empties and primers for above. F. H. Greer, 2024 Creasy Avenue, Wilmington, No. Car. 3-43

WANTED—WANTED FOR CASH. AMMUnition, any quantity, all calibers. Write Public Sport Shops, Dept. R-58, 13 S. 16th St., Phila., Pa. 3-43

WANTED—TWO THOUSAND NON-CORROSIVE 22 B. B. Caps. W. B. Parker, Conway, New Hampshire. 3-43

WANTED—WINCHESTER STANDARD GRADE 12 Gauge 12-12, 28" Modified Preferred, good or better. Examination requested. W. L. Galbraith, Route #5, Vancouver, Wash. 3-43

WANTED TO BUY FOR CASH: GUNS AND Ammunition. Alliance Gun Exchange, Alliance, Ohio. 7-43

WANTED—410 SHOTGUN SHELLS, 3 INCH, 6 or 7½ shot. Dr. Voss Harrell, 910 Hofman Bldg., Detroit, Mich. 3-43

WANTED—WALTHER P. P. K. AUTOMATIC Pistol .22 cal. State condition and price. Harold Caton, 114 E. Anaheim, Wilmington, California. 3-43

WANTED—TWENTY GAUGE DOUBLE WITH ejectors; also 250-3000 Savage; also B&L or Silvamar binoculars. R. P. Haun, Central Hotel, Ballinger, Texas. 3-43

WANTED—MODEL 745 SAVAGE AUTOMATIC Shotgun. W. L. Caviness, Carthage, N. C. 3-43

WANTED—RIFLE ACTIONS OF THE FOLlowing makes: Enfield, Heavy Mauser, Springfield, Farquharson, Hi-Side or Borchardt. Must be bargains. Stamp. R. C. Hoard, 2416 North Mesa, El Paso, Texas. 3-43

WANTED—PARTS FOR KRAG, MAUSER, Enfield, etc. Have brand new 942 Springfield, 20 gauge singles. 84C Springfields. 53 Stevens. S. S. Prices on request. Also want Sporting Guns, any caliber and ammunition. Tom Greeley, 67 Palm Street, Newark, N. J. 3-43

WANTED—16 GAUGE EMPTIES, WINCHESter, taking No. 4 Primer. C. P. Beals, R. R. 8, North K. C., Mo. 3-43

WANTED—PERFECT TO NEW 8X OR 10X LYman Targetspot with ¼ minute click mounts and medium fine cross-hairs. Perfect Magnum Mauser action. Perfect .357 Magnum Frontier Colt. Perfect full choke overunder shotgun twelve gauge automatic ejectors, single trigger. D. S. Hopkins, East 831, Rockwood Blvd., Spokane, Wash. 3-43

WANTED—MODEL 21 WINCHESTER, 20 gauge, skeet boring. Prefer Trap grade. Charles Hill, 1541 Sacramento Street, San Francisco, Calif. 3-43

WANTED—M-17 BOLT AND EJECTOR, Mauser bolt and extractor, Empties 22 HP, .257 Roberts, 7mm. and 250-3000. J. R. Buhmiller, Eureka, Montana. 3-43

WANTED—WINCHESTER 21, 12x30, M-F, Beavertail S. S. T., selective ejection. Give stock measurements. Ralph G. Voss, R. R. #4, Fremont, Ohio. 3-43

WANTED—M2 .22 SPRINGFIELD. PERFECT condition. C. O. D. with examination privileges. K. B. Crowell, #8 President Ave., Rutledge, Pa. 3-43

WANTED—BROWNING O. & U. LIGHTNING, 28" barrels, full and modified, SST-AE, rib. Capt. Charles G. Stetson, Fitzsimons Hospital, Denver, Colorado. 3-43

WANTED—GUNS—ALL KINDS. 22 CAL., High Power, Revolvers and Shotguns. Give best cash price and accurate description first letter. The Jaymac Co., Jackson, Mich. tf

WANTED—.256 NEWTON BARREL, 24". COLT .45 Automatic. SELL—F. A. new cases, 30-06 hand loads, target and game, description on request. Russell Jennison, Iraan, Texas. 3-43

WANTED—AJACK TELESCOPE 4 X 90, 3 X 75 or Hensoldt 4x60. John R. Shoffner, Shawmut Building, Kittanning, Pa. 3-43

WANTED—WILL PAY CASH FOR NEW NAtional Match or Service Rifle as issued, or barrel and receiver assembly, new, high number only. Prefer rifle with "C" stock. Also want new M-1 .22 barrel unaltered. G. R. Dougles, Box 773, Belle, West Virginia. 3-43

WANTED—AUTOMATIC PISTOLS, .22, .32, and .45 caliber. Warshal's, First and Madison-BB, Seattle, Wash. 3-43

AMMUNITION, ALL TYPES WANTED. State condition, age and caliber. Highest prices paid. Make offer. Stoeger Arms Corporation, 507 Fifth Avenue, New York, N. Y. tf

WANTED—.300 SAVAGE AMMUNITION OR components, will take any quantity. Also Schmitt sizing and seating dies for .300 Savage and 32/20. What have you? George Sheaffer, Milford, Del. 3-43

WANTED—F. A. PRIMERS OR OTHERS, ANY sensible price. L. M. Gable, Valley View, Pa. 3-43

WANTED—WINCHESTER 70 OR OTHER 30-06 rifle. Also Lyman Alaskan scope and ammunition. T. A. Hawn, Box 35, Station A. Los Angles, Calif. 6-43

WANTED—By life member, two boxes of 348 cartridges in 250 grain bullet weight. Dr. F. B. Wilson, Tappahannock, Va. 3-43

WANTED—IMPORTED AIR RIFLE, HEAVY Colt .22 Conversion, Light Metal Lathe, Grinder, Sander and Drill Press. Elvin W. Henninger, Dubois, Idaho. 3-43

WANTED—BISLEY 32-20; STEVENS HI-Power 425; Reising 22; Seneca-Falls Small Lathe; Winchester Sporter 6mm; Meepos Dies. John DeWitt, Troy, Penna. 3-43

WANTED WINCHESTER 70, .30-06, 20" BARrel preferred; also used M-70 stock. Dr. Chas. C. Adams, Longview, Texas. 3-43

WANTED—WILL PURCHASE WHITworth Hex bore Civil War Military Rifle. Must be in fine shooting order. Describe, with lowest cash price. Kimball Arms Company, Woburn, Mass. tf

WANTED—AT A FAIR PRICE. COLT FRONtier Single Action, any caliber, must be in good shape and O. K. for modern cartridge. Tom Scroxton, 76 South Avenue, Bradford, Penna. 3-43

WANTED—REMINGTON 30S, CALIBER .25, .30, .35 Remington .257 Roberts; also Remington 30-S for actions only; any caliber or condition. Will pay cash. State lowest prepaid price and condition. A. C. Dick, Box 685, LaJolla, Calif. 3-43

WANTED—DETECTIVE SPECIAL, BANKers Special, Walther 22 or other short 22 or 38. Will pay $35.00 or more. T. A. Hawn, Box 35, Station A, Los Angeles, Calif. 6-43

WANTED—FOLLOWING EXCELLENT OR BETter inside. Heavy 32-40 or 38-55 single shots, Sharps Borchardt Rifle or Action, Heavy 32-40 or 38-55 octagon barrel for Hi-Wall, Fairbanks Scales. G. J. Dye, 3388 Whitney Ave., Hapeville, Ga. 3-43

WANTED—EXAKTA OR KORELLE. ALSO telephoto, flashgun, meter. C. Streed, 3344 Beard N., Robbinsdale, Minn. 3-43

WANTED—.45 AUTOMATIC COLTS, POOR condition for frames only; also .45 Automatic Ammunition. Federal License 3479. E. S. Burrell, 717 Wyndmoor, Chestnut Hill, Philadelphia, Pa. 3-43

WANTED—PERFECT, AS ISSUED, D. C. M. Springfield Sporter, new condition preferred. Lt. Van T. Smith, Naval Air Station, Whidbey Island, Oak Harbor, Washington. 3-43

WANTED—10X SCOPE AND MOUNTS. RAY Ban Glasses. 22 L. R. Regular or Match Ammunition. F. Davidson, Box 1104, Roswell, New Mexico. 3-43

WANTED—.30-06 SPRINGFIELD OR ENfield as issued, also bayonets. Robert Abels. 860 Lexington Avenue, New York. 3-43

WANTED—BARREL FOR 12 GAUGE BELGIANBrowning Automatic. Major H. A. Wright, Camp Crowder, Missouri. 3-43

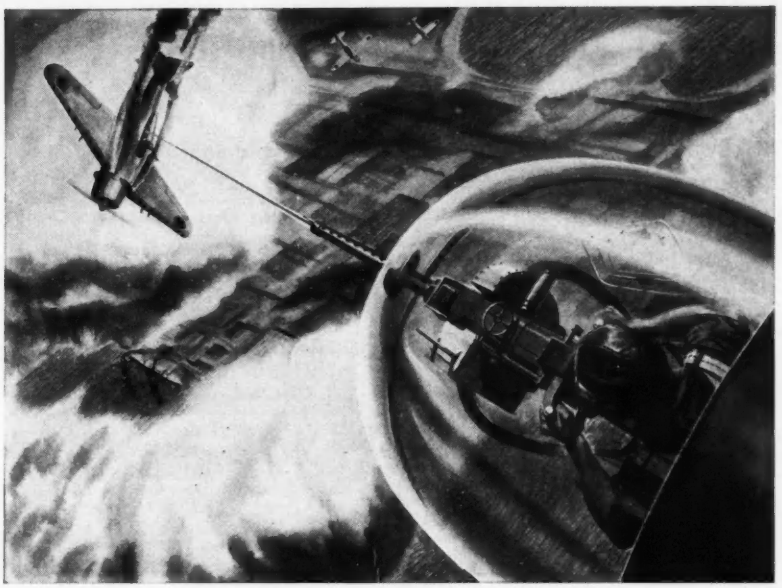
WANTED—LYMAN 438 4X TELESCOPE. TAPered post. New 24" barrel, .30-06 Springfield. Good used '92 .25-20 barrel, 20" round. .38-40 cartridges. Konrad Hartbauer, Boundary, Wash. 3-43

WANTED FOR CASH — SHOTGUNS, Rifles, Pistols and Revolvers. Can use all makes and types. Describe guns fully in first letters, state price, all mail answered. Big Ben Mercantile and Loan Co., 179 Third Street, San Francisco, Calif. tf

WANTED—.45-.22 CONVERSION UNIT. CASH. Excellent to perfect. Victor Taylor, 2214 E. Monument St., Baltimore, Md. 3-43

WANTED—HI-STANDARD MODEL "B" 6¾" barrel. Outside condition is immaterial. Must be reasonable in price. G. E. Barker, Kern River #3, Kernville, Calif. 3-43

WANTED—COLT AUTOMATIC PISTOLS, .25, .32, .38, or .45 caliber. Warshal's, First and Madison-BB, Seattle, Wash. 3-43



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For over a year it has been our job to produce weapons worthy of the skill and courage of our fighting forces. Huge quantities of Browning aircraft machine guns, Thompson submachine guns and military rifles have moved from our plants into battle around the world.

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WIN. Model 05, 25/20 or 32/20 WCF, open sights. 51.50
WIN. Mod. 92, 38/40 WCF, wlld fr., 24" Rd. bbl.. 48.65
WINCHESTER Rifle, Model 62 Repeater, 22 cal... 24.10
NEW barrels for .45 Colt Auto. Pistol, Postpaid... 3.95
New LIVE leather Gov't 1¼" Sling Straps..... 1.25
NEW barrels for 380 Colt Auto. Pistol, Postpaid... 2.75
NEW Magazines for .45 Colt Auto. Pistol, Postpaid 1.65
NEW WIN. make Enfield barrels 30 cal, only..... 9.75

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303 British, non-corrosive, 215 gr. Soft Nose..... 9.65
44 S&W Special Winchester Stayniess, lead..... 4.50
25 Remington Rimless, 117 grain, Kleanbore..... 7.00
40/65 Winchester Model 86, Stayniess, soft nose.... 7.85
41 Italian Vetterli Centerfire, Imported..... 6.60
40/72 Win. Model 95, Win. Stayniess, soft nose..... 6.75
7.63 m/m (30 cal.) pistol, met. case in clips, imp... 4.00
41 Long Colt Winchester Smokeless Stayniess..... 3.60
25 Rem. Rimless, metal jacket, corrosive, Primer... 4.00
32 Remington Rimless, 110 gr. Mushroom bullet.... 5.50
300 H&H Magnum Super X, 180 grain, 220 grain.. 12.80

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.22 SHORT CARTRIDGES
ANY QUANTITY

Will pay 40¢ per box of 50—or $80.00 per case 10,000 Rounds. Must be Remington, Western, Peters, or Winchester fresh stock. Write or wire collect what you have.

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Sure Grip Adapters
Weaver Scopes, Gun Slings

Distributors for

U. S. Defense Supplies Corp.
COOK, NEWTON & SMITH, INC.
105 Crown St., New Haven, Conn.

WANTED—PACIFIC RELOADER .30-06; WINchester Bullet Seater .30-30; Ideal Mould 308291. SELL—TRADE Winchester Rifle Low Side Single Shot .25-20, good, $17.50. Wm. Weight, Springville, Utah. 3-43

WANTED—COMPLETE ASSEMBLY FOR .30-06 Rifle except barrel and stock. Action can be either Springfield or Mauser. If Springfield, exclude the bolt. M. J. McDermott, 30 N. LaSalle Street, Chicago, Illinois. 3-43

WANTED—WEAVER 29S SCOPE; ALSO LYMAN 48 rear, 63 and 241 Automatics. Clarence Marsh, Orlando, Fla. 3-43

WANTED—WINCHESTER MODEL 21, 20 GAUGE, 28" barrels, full and modified, single trigger, best grade, some engraving. New condition. Give offer and price in first letter. Robert Kraus, 901 Wisconsin Avenue, Racine, Wisconsin. 3-43

WANTED—WINCHESTER MODEL 70, .30-06, Target Grade, Marksman stock; or D. C. M. Springfield Sporter, N. S. receiver and bolt, excellent to perfect. M-2 magazine. HAVE—M-1 Bolt and Magazine. Guy M. Holdren, 1466 W. Harding Way, Stockton, California. 3-43

WANTED—WINCHESTER .270 TARGET MODEL 70 or .300 Bull Gun. Also 8X Targetspot Jr. or 15X Super Targetspot. Must be excellent. Bud Price, Garland, Ark. 3-43

WANTED—M54 WINCHESTER .30-30 AND .30-30 Remington Cases; also Belding & Mull 2 cavity mould #311169 gas check; also Winchester .25-20 single shot cases. TRADE—Colts Shooting Master 38 Special in excellent condition. What have you? All replies answered. Life member. Gaylor Hess, 1100 Elm St., Bridgeport, Ohio. 3-43

WANTED—ARGUS SPOTTING SCOPE. RAY Ban Glasses, .257 Reloading Tools, unaltered National Match or Service Rifle, give serial number. Describe fully. Perry B. Shotwell, R. D. # 3, Kingsport, Tennessee. 3-43

WANTED—PRIMERS, WESTERN OR WINchester #209, Winchester new #4 Remington #53 and #57; Peters #4 and #10X; 12 gauge felt wads. State quantity and your price in first letter. Charles Shattuck, Cherry Creek, N. Y. 3-43

WANTED—25-35 CAL. BARREL FOR 99 SAVage Featherweight Take Down; Mexican Mauser action; Enfield barrel; Krag Sporter stock. SELL—Good Girard hunting scope, with mounts for Mauser Sporter, $50.00. John Carpenter, Miami, Arizona. 3-43

WANTED—METAL LATHE; WOOD LATHE; Deer Rifles for collection; Automatic Shotgun; Vermin Rifle; Hunting Bow; Gunsmith's, Machinists, Reloader's Tools, Equipment; Books. Guns for parts. L. DeLambert, Fourth, Janesville, Wis. 3-43

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WANTED—NECESSARY PARTS FOR BELDING and Mull #26 reloading tool for 220 Swift. Components. L. Walter Douglas, R. D. #2, Red Lion, Penna. 3-43

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.32 WINCHESTER AUTOMATIC RIFLE, GOOD, 250 cartridges, $60.00. 32 Spanish Auto, good, 100 Cartridges, $15.00. Colt .45 Auto. Cartridges. Very good, $46.00. James Fitzgerald, 3609 N. Murray, Milwaukee, Wis. 3-43

WINCHESTER 52, PLAIN LOCK, 28 IN. BARrel, target stock, sling, scope blocks, equipment mike receiver, blade front sight, inside excellent, outside very good, $32.50. Howe Modern Gunsmith with supplement, perfect, $12.50. J. O. Williams, Troup, Texas. 3-43

CUSTOM BUILT 22 TARGET RIFLE, 28X1-1/16" Neidner taper bore barrel, Walnut Hill action, heavy walnut stock with cheek piece, scope blocks, no sights, excellent, $40.00. Lyman Tube Sight with three point mounts, recoil return, perfect, $25.00. Military Mauser, 7.63mm, 4" barrel walnut and extra Franzite grips, loading clip, cleaning rod, 110 rounds new ammunition, perfect, $75.00. Another 9mm, 5½ barrel loading clip, 60 rounds new ammunition, very good, $30.00. Genuine Luger, original carton, 7.65 mm 3¾" barrels, sole leather holster, 100 rounds new ammunition, perfect, $50.00. Colt New Service, 45, 7½" barrel, 50 rounds, new ammunition, very good, $37.50. E. R. Wood, No. 11 W. Commerce St., Youngstown, Ohio. 3-43

TRADE—AMMUNITION. PETERS RUSTLESS .45 cal. ACP 230 grain M. C. Bullet. Remington .22 cal. L. R. Kleanbore. F. A 1935 45 cal. ACP. .33 Winchester centerfire W. R. A. Components. Remington 1½ and Peters 15 Primers, 148 grain .38 special wadcutters. English Setter dog, 3 years old. Trained hunter and retriever. Trade for quality rifle less than .30 cal. E. E. Hohman, Mayer-Lotz Bldg., Wausau, Wisconsin. 3-43

NEEDED AT ONCE FOR NATIONAL DEFENSE. German Maxim Machine Gun Breech Mechanisms. D. L. Smith, 17301 Wisconsin, Detroit, Michigan. 3-43

FOR SALE—BEAUTIFUL PARKER PHE 20-28 MF, Beavertail, stock 2⅛x14⅜x14 full Pistol, excellent. $135.00 cash. Pigeon Grade Winchester Model 12-20. Cutts Comp, three tubes, cheek piece stock, beautiful wood, recoil pad, VG to excellent, $115.00. P. R. Lilly, Valdosta, Ga. 3-43

WANTED—COLT 38 SUPER, 45 AUTO, S. & W. Magnum, S. & W.—Colt 38 Special Target, will trade K22. Almon Williams, Berea, Ohio. 3-43

FOR SALE—VICTOR 16 MM. TURRET MOVIE Camera with Dollmeyer 1 in. F 1.9, 2 in. Goerz F 2.7, new 4 in. Wollensak F 4.5, Case, Filters, $125.00 cash, or trade on Miniature Graphic. Albert Quam, Whitefish, Mont. 3-43

WANTED—SAVAGE MODEL 7 OR SIMILAR Automatic. E. L. Stearman, 1050 North Clinton, Dallas, Texas. 3-43

TRADE EVEN—WINCHESTER 22 LONG RIFLE for Large Rifle Primers. FOR SALE—.30-'06 Cases 41, fired once, $10.00 per M. J. C. Hamilton, Warrenton, Va. 3-43

FOR SALE—KRAG AS ISSUED, GOOD, $25.00. Remington, Model 11, 12 Gauge, Auto, Modified Barrel (Poor), 10 boxes of shells. Lt. Mortimer Miller, Accomac, Virginia. 3-43

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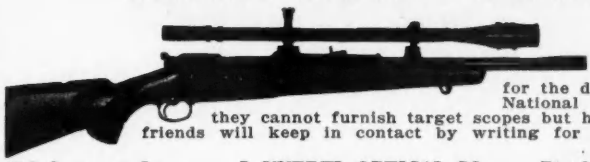

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SMITH, IDEAL 20-26, IMP. CYL. AND QUARter-ejectors, raised rib, perfect, factory oiled stock; 3 boxes high velocity, $80.00. E. F. Wright, Scappoose, Ore. 3-43

GERMAN MILITARY MAUSER, GOOD, WITH 340 cartridges, 15 clips, holster, $58.00. German Maxim Machine Gun, with mount, all good, unserviceable, $55.00. Austrian Mannlicher Carbine, good, $13.50. Belgian percussion shotgun, dated 1827, fair, complete, $3.00. Dave Babcock, 51 Oakdale, Pleasant Ridge, Mich. 3-43

WINCHESTER 52, H. B., VERY GOOD, PROOF steel bbl. accurate. Marble Goss extension rear, Vaver front, scope blocks, swivels, no sling. Stock lead weighted, quick detachable Schuetzen butt plate, grip adapter, $60.00, or will trade for N. M. Springfield in like condition. Also 65mm Bausch & Lomb 20X, scope and stand, both factory condition, $80.00. J. C. Zolnoski, 124 N. Park, Casper, Wyoming. 3-43

SELL OR TRADE—SNOW-BIRD SNOWMOBILE fits Model A or V8 Ford. Tires new, rest perfect condition, $150.00 or Bausch Lomb Binoculars, Alaskan Lyman Scope, Guns or What Have You? Ed R. Beckman, 1226 3rd Avenue North, Great Falls, Montana. 3-43

WANTED—22 MATCH TARGET, OFFICERS Model 38, excellent to perfect. Will pay cash. MarGun J. M. Duggan, AES-13, USMCAS, Quantico, Va. 3-43

TRADE—2 LATE NEPTUNE OUTBOARD 4 H. P. Twins. 7 mm. Mauser Sporter, 22" bbl. Bishop stock Target Sights. Savage 23D Hornet, Savage 219 Hornet, Mossberg 42M 22 LR, Newport 410 Double, Winchester DeLuxe Target 22 LR (Engraved SS). H. & R. (22 Sealed 9 Shot). Stevens Offhand 22 Pistol. Win. Hi-Wall DeLuxe R-2. Win. Lo-Wall R-2. Several Win. SS stocks and forearms. 1 Win. 12 stock. 1 Ballard Pistol Grip stock. 1 pair 8x30 Hunter Binoculars. 500 22 LR for same number of #120 Primers. 500 bullets, 117 gr. 25 cal. S. P. 100, 93 gr. 30 caliber bullets. 200 110 gr. 30 cal. bullets, 1 box 300 Savage factory ammo. 2 bx. 25-35 ammo. WANT—250-3000 empties, Model 70, 220 Swift, Primers, 22 cal. bullets, scopes, Pacific tools and dies, Winchester Model 12 trap gun. What do you offer? W. C. Barnhart, Box 74, New Carlisle, Ohio. 3-43

WANTED—EXCELLENT .30-06 SPORTER OR National Match. New Service Target or Shooting Master .44 Special. Mold #429421. Meepos bullet dies .38 Special and .30-06. All offers answered. Life member. H. M. Aitken, Ogdensburg, New Jersey. 3-43

.30 LUGER DWM, 4¾" (SQUEEZE GRIP), very good, $37.50; .22 H. & R. Special, very good, $8.00; Winchester 52, slowlock, scope blocks, excellent, $28.00; Lyman 5-A Scope, mounts, perfect, $26.00; .30 Springfield, good plus, $28.00; Winchester 12, 12-32" trap, solid rib, excellent, outside very good, $65.00; .22 Remington 341, Weaver 344 Scope, 4X, excellent, $17.00; .38 Army, 4½" (Spanish), good, $15.00. T. W. Stein, 854 Washington, Butte, Montana. 3-43

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WANT—WINCHESTER 1892 CARBINE, 25-20 or 32-20; 1895, 35 or 405 with poor barrels. Will pay $6.00 thousand for 120, 115 or 8½ primers. Arden Laubach, Carter, Mont. 3-43

REMINGTON MODEL 37, VAVER REAR, REDfield front, perfect, $90.00; Colt's Woodsman 6½, serviceable condition, $30.00 or trade for Colt's Police Positive 38, 4 inch barrel, in very good condition; Model 12, 12 Gauge Magnum, 32 inch ribbed barrel, perfect condition, 10 boxes of 3 inch shells or more if wanted, $110.00. Byron Sullivan, Washington, Illinois. 3-43

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COLT'S OFFICER'S MODEL 38, 7½ INCH, hammer-fall modified by world-champion Harold M. Cline, broad sights, perfect, $52.50. Pacific reloading tool 38, carbon steel dies, two primer arms for large and small, $22.00, Modern-Bond double cavity mold 358, round nose, commercial, $6.00. Ideal bullet resizer two dies, 358, 429, $11.50. All excellent, S. & W. hammerless 38, nickeled, good, $15.00. S. & W. Olympic, very good, special circassian stocks, $18.00. J. D. Armistead, Center Point, Texas. 3-43

PERFECT: 52 STANDARD #34594, 17A, $50.00; excellent: Malcolm 10X ¼ min., $42.50. Very Good: Winchester 32-20, 100 shells, $35.00; 4X Ranger Scope, $10.00. Ernest Juola, Eveleth, Minn. 3-43

WANTED—TO PURCHASE MANNLICHER-Schoenauer Sporting Rifle, Model 1903, 6.5M/M, 256 bore. Must be in excellent condition, also ammunition. L. H. Siebecker, Box #28, Nanticoke, Pa. 3-43

FOR SALE—MODEL 61 WINCHESTER, EXCELlent, $30.00; Model 72 Winchester, excellent, $20.00; Model 1890 Winchester, W. R. F., good, $18.00; Model 99G, 250-3000 Savage, good, $35.00. Trade. Peter Klojda, P. O. Box 217, Tucson, Ariz. 3-43

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2R HIGH-WALL LOVELL, GOOD, LIGHT C. Johnson barrel, SS, open sights and blocks, $40.00. Military and Police Target, 38 Special, 6", Roper grips, King sights, very good, $45.00. Springfield 45-70, fair, 80 cartridges, $10.00. Maynard. 40-60, fair, tang peep, 18 cartridges $8.00. Cartridges, 61 8mm Mannlicher Lubaloy, $5.00. Primers, 400, #4 and 200, #225 Winchester. Life member. H. M. Aitken, Ogdensburg, New Jersey. 3-43

PERFECT WINCHESTER SKEET GRADE 20 gauge, Poly Choke Recoil Pad, Case, $75.00. Excellent Krupp 16, 28" M&F, beautifully engraved auto ejectors, selective single trigger, recoil pad, cost $650.00; Sell $185.00. Life member, W. H. Baldridge Jr., 128 Shady Drive West, Pittsburgh (16), Pa. 3-43

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COLT FRONTIER PARTS, LARGE SUPPLY. No bolts or barrels. Colt and Remington percussion parts, gun locks, moulds, flasks, etc. List, 10¢. James Serven, Santa Ana, California. 4-43

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SELL MAGIC WAND WELDER, VERY GOOD, 4½ pounds rods, $10.00. Italian Veterli .41, good, ramrod missing, $5.00. Springfield 1870 .45-70, good, $4.00. Double 12 Muzzle Loader, Perkins, shootable, poor, $3.00. 12 Gauge Belgian single, action similar to Snyder, oddity not shootable, fair, $4.00. Will trade for percussion pistols. WANTED—Tell or Luna Match Pistol. Officers Model Target .38 or S. & W. .38 Military and Police Target. Howard Faust, 625 Lincoln St., Easton, Pa. 3-43

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FOR SALE—NEW CONDITION .45 COLT AUTOmatic M1911, holster, belt and two mags., $65.50. New condition Colt .25 auto, with new Colt issue pearl grips, blued, $29.50. Stan Bulback, 117 Essex Street, Jersey City, N. J. 3-43

REMINGTON AUTOMATIC MODEL 11, 12 Gauge, Rib, Excellent Condition, $76.00. Winchester '97, Excellent, $44.00. Ithaca, 12 Gauge, 5E Ventilated Rib, Trap, F & M, excellent, $185.00. Browning O & U, Ventilated Rib, F & F Trap, Excellent, $125.00. Winchester Model 12, 12 Ga., Ventilated Rib, Cutts Compensator, Excellent, $135.00. Winchester Model 12, Matted Rib, 12 Gauge Trap, Excellent, $80.00. Send stamp for gun list. We buy or trade guns. Isetts' Sport Shop, 1309—63rd St., Kenosha, Wisconsin. 3-43

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PERFECT COMMERCIAL 45 AUTO, $65.00. Krag Sporter, $30.00 up depending on sights. Want—early Breech Loading Carbines. G. B. Gaumer, 4028 Parrish, East Chicago, Indiana. 3-43

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PARKER SINGLE TRAP GUN #177388, GOOD. Full choke, vent. rib, auto ejector, beavertail, beautifully engraved breech, straight buttstock worn and needs new recoil pad. $70.00. Marbles 32-40 reloading tool and mold. $6.00. E. R. Fischer, Box 475, Lincoln Park, N. J. 3-43

EXCELLENT .357 MAGNUM S&W 6½ IN. BARREL, red post front sight, Roper stocks, 100 cartridges, $100.00. Excellent .38-44 S&W 6½ in. barrel humpback hammer, 50 cartridges, $65.00. Excellent .38-44 5 in., King short action, Sanderson stocks, Patridge front, $65.00. Life member. J. W. Baker, Huntsville, Tenn. 3-43

WANTED—ZEISS ZIELVIER-ZIELSECHS-ZIElacht or similar high grade hunting telescope. Also high grade 20 Gauge Shotgun Over and Under or Model 12 Winchester. F. R. Showalter, Mifflinburg, Pa. 3-43

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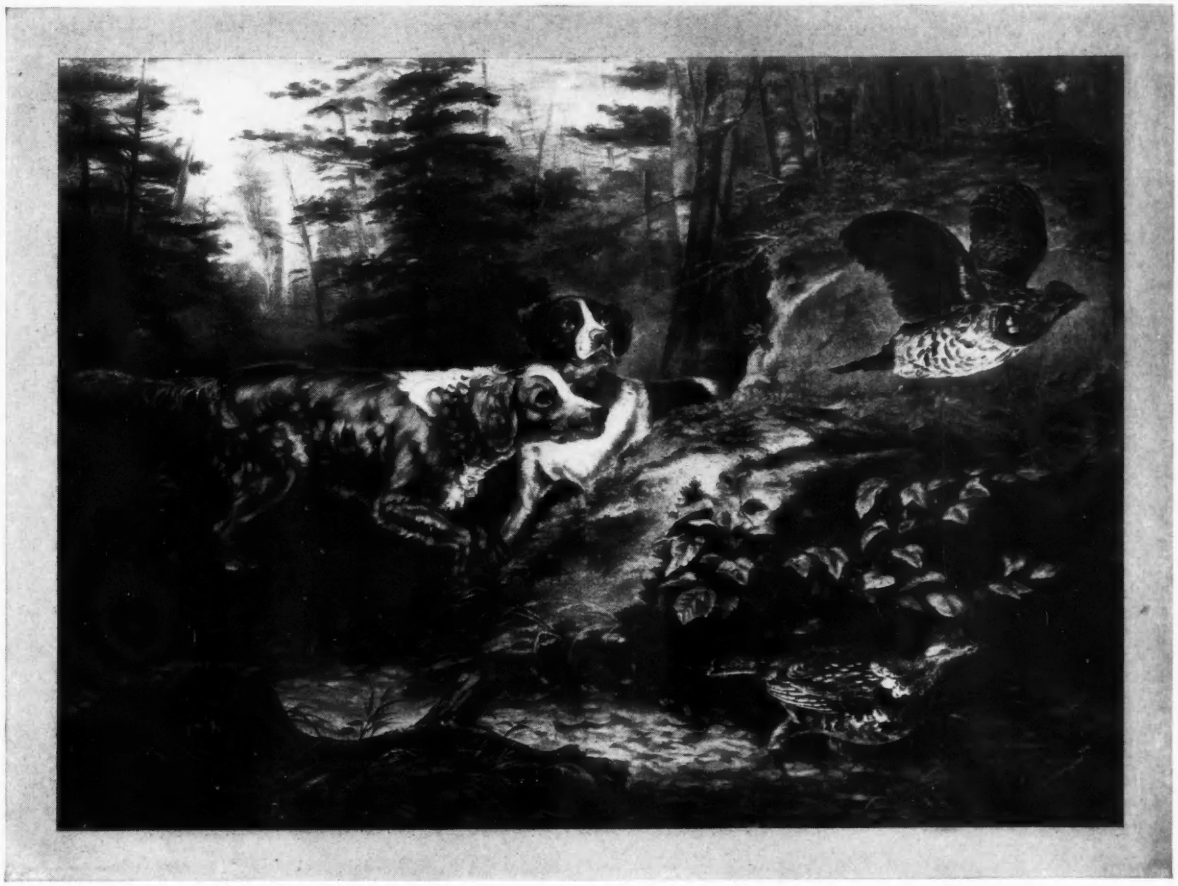

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